Public Review
Initial Study/Mitigated Negative Declaration

Northwest Corner of 3rd Street and Central Avenue Warehouse Project

July 2022

Prepared for:

City of Highland
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PUBLIC REVIEW DRAFT

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
ACM	asbestos-containing materials
ADA	Americans with Disabilities Act
AERMOD	American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model
AQMP	Air Quality Management Plan
BMPs	best management practices
BP	Business Park
CAAQS	California Ambient Air Quality Standards
CAL FIRE	California Department of Forestry and Fire Protection
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDOC	California Department of Conservation
CEQA	California Environmental Quality Act
CH_4	methane
CHRIS	California Historical Resources Information System
CMP	Conservation Management Plan
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2e	CO_2 equivalent
CRHR	California Register of Historical Resources
dB	decibel
dBA	A-weighted decibel
DPM	diesel particulate matter
DTSC	Department of Toxic Substances Control
EIR	environmental impact report
EPA	U.S. Environmental Protection Agency
EVWD	East Valley Water District
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FICON	Federal Interagency Committee on Noise
FTA	Federal Transit Administration
GHG	greenhouse gas
GWP	global warming potential
HARP2	Hotspots Analysis and Reporting Program Version 2)

Acronym/Abbreviation	Definition
HRA	health risk assessment
HVAC	heating, ventilation, and air conditioning
I	Interstate
IPCC	Intergovernmental Panel on Climate Change
IS	Initial Study
L_{dn}	day–night average noise level
L_{eq}	equivalent noise level over a given period
LOS	level of service
LST	localized significance threshold
MND	mitigated negative declaration
MS4	Municipal Separate Storm Sewer System
MT	metric tons
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commision
NO_2	nitrogen dioxide
NO_x	oxides of nitrogen
NPDES	National Pollution Discharge Elimination System
O_3	ozone
OEHHA	Office of Environmental Health Hazard Assessment
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PCE	passenger car equivalent
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
RCNM	Roadway Noise Construction Model
REL	reference exposure level
ROW	right-of-way
RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SBCOG	San Bernardino Council of Governments
SBIA	San Bernardino International Airport and Trade Center
SBSD	San Bernardino County Sheriff's Department
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coast Information Center
SCE	Southern California Edison
SDSU	San Diego State University

Acronym/Abbreviation	Definition
SLF	Sacred Land Files
SO_x	sulfur oxides
SR	State Route
SWPPP	Stormwater Pollution Prevention Program
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCR	tribal cultural resource
USGS	U.S. Geological Survey
VMT	vehicle miles traveled
VOCs	volatile organic compounds
WQMP	Water Quality Management Plan

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1 Introduction

1.1 Project Overview

The City of Highland (City) received an application from Patriot Development Partners (project applicant) requesting the following approvals for development of the northwest corner of 3rd Street and Central Avenue Warehouse Project (project) located at the northwest corner of 3rd Street and Central Avenue in Highland, California:

- Conditional Use Permit (CUP 22-002)
- Design Review (DRA 21-024)
- Variance (VAR 22-001)
- Parking Reduction
- Tentative Parcel Map (TPM 22-002)

The project includes design review for the construction of an approximately 54,330-square-foot, one story industrial/warehouse building on an approximately 3.01-acre (gross) property located in the southern part of the City. The project site is composed of eight parcels (Assessor's Parcel Numbers [APNs] 1192-561-11, 1192-561-15, 1192-561-16, 1192-561-17, 1192-561-18, 1192-561-19, 1192-561-20, and 1192-561-21). In addition to the industrial/warehouse building, the project would include a landscaping area, passenger vehicle parking spaces, and tractor-trailer loading docks.

1.2 California Environmental Quality Act Compliance

The City is the lead California Environmental Quality Act (CEQA) agency responsible for the review and approval of the proposed project. Based on the findings of the Initial Study (IS), the City has made the determination that a Mitigated Negative Declaration (MND) is the appropriate environmental document to be prepared in compliance with CEQA (California Public Resources Code, Section 21000 et seq.). As stated in CEQA Section 21064, an MND may be prepared for a project subject to CEQA when an IS has identified no potentially significant effects on the environment.

This draft Initial Study/Mitigated Negative Declaration (IS/MND) has been prepared by the City as lead agency and is in conformance with Section 15070(a) of the CEQA Guidelines (14 CCR 15000 et seq.). The purpose of the MND and the IS Checklist is to determine any potentially significant impacts associated with the proposed project and to incorporate mitigation measures into the project design, as necessary, to reduce or eliminate the significant or potentially significant effects of the project.

1.3 Public Review Process

In accordance with CEQA, a good faith effort has been made during the preparation of this IS/MND to contact affected agencies, organizations, and persons who may have an interest in this project.

In reviewing the IS/MND, affected public agencies and the interested public should focus on the sufficiency of the document in identifying and analyzing the project's possible impacts on the environment. The Draft IS/MND and related documents are available for review on City's website (https://www.cityofhighland.org/200/Documents-Forms).

Comments on the IS/MND may be made in writing before the end of the public review period. Following the close of the public comment period, the City will consider this IS/MND and comments thereto in determining whether to approve the proposed project.

Written comments on the IS/MND should be sent to the following address by August 1, 2022.

City of Highland
Planning Department
27215 Base Line
Highland, California 92346
Contact: Angela Tafolla
Email: atafolla@cityofhighland.org

1.4 Initial Study Checklist

Dudek, under the City's guidance, prepared the project's Environmental Checklist (i.e., IS) per 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 is found in Section 3 of this document. Following the Environmental Checklist, Sections 3.1 through 3.21 include an explanation and discussion of each significance determination make in the checklist for the project.

For this IS/MND, the following four possible responses to each individual environmental issue area are included in the checklist:

- 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 analysis necessary to assess relative environmental impacts of the project. In doing so, the City will determine the extent of additional environmental review, if any, for the project.

2 Project Description

2.1 Project Location

The project site is located in the southwestern area of the City in western San Bernardino County. The City is bounded by the San Bernardino National Forest to the north and to the east, the City of Redlands to the south, and the City of San Bernardino to the west. The project site is located at the northwestern corner of 3rd Street and Central Avenue, north of 3rd Street, east of Victoria Avenue, south of W 5th Street, and west of Central Avenue (Figure 1, Project Location).

The project site is composed of eight parcels (APNs 1192-561-11, 1192-561-15, 1192-561-16, 1192-561-17, 1192-561-18, 1192-561-19, 1192-561-20, and 1192-561-21) (Figure 2, Aerial Overview). Regional access to the project area is provided by Interstate (I-) 10 to the south, I-215 to the west, and State Route (SR) 210 to the east. The site is bounded to the north by scattered low-density residential and commercial land uses, to the west by vacant land, to the east by business park uses, and to the south by the City boundary, with the City of San Bernardino and the San Bernardino Airport located beyond the City limits.

2.2 Environmental Setting

City of Highland

The City of Highland is a mid-sized California city with approximately 55,000 residents and 18 square miles of territory. Within the City, the pattern of land use transitions from predominantly single and multi-family residential and industrial near the San Bernardino International Airport to predominantly single-family residential, commercial, service and civic center uses to the north. The eastern areas of the City are mostly made up of planned development areas with various residential types, parks and open space.

Project Site

The approximately 3.01-acre rectangular-shaped project site is located on the northwestern corner of 3rd Street and Central Avenue. The project site consists of vacant land and vehicle storage uses. The existing site contains a semi-truck and trailer staging lot, a mobile office trailer, and a garage type structure. Vegetation and land covers on the project site consist of developed land with crumbling asphalt and disturbed habitat. Figure 3A and Figure 3B depict the existing conditions on the project site.

The project site is relatively flat with an elevation of approximately 1,165 feet above mean sea level with a regional slope to the west. Soils on site consist of both fill soils and native soils. Fill soils are present approximately 1 to 2.5 feet deep and classify as silty sand with gravel and occasional asphalt pieces. Native soils on site classify as fine to coarse slightly silty sand with cobbles and occasional boulders.

The City's General Plan Land Use Map designates the project site as Business Park, and the project site is zoned as Business Park within the Airport Influence Zone (Figure 4, General Plan Land Use and Figure 5, Zoning).

Surrounding Land Uses

The project site is located within a developed part of the City and is surrounded by a mix of urbanized land uses. Specific land uses in the immediate project area are depicted in Table 2-1, Surrounding Land Uses.

Table 2-1. Surrounding Land Uses

Direction	Existing Use	General Plan	Zoning Designation
North	Commercial uses and single-family homes	Business Park	Business Park
East	Industrial uses	Business Park	Business Park
South	3rd Street, undeveloped land, and the San Bernardino International Airport	Business Park	Business Park
West	Vacant parcel	Business Park	Business Park

Note: See Figure 4, General Plan Land Use and Figure 5, Zoning.

The project area is within the boundary of the proposed Airport Gateway Specific Plan. The Airport Gateway Specific Plan is a public-private partnership project proposed by the Inland Valley Development Agency, a Joint Powers Authority comprised of members from San Bernardino County, the City of Loma Linda, the City of San Bernardino, and the City of Colton. The Airport Gateway Specific Plan encompasses 670 acres, inclusive of parcels in the City of Highland and the City of San Bernardino, that would be designated for a mix of industrial uses. The Airport Gateway Specific Plan would be bound by 6th Street to the north, 3rd Street and the San Bernardino International Airport to the south, SR-210 to the east, and Tippecanoe Avenue on the west. The proposed Airport Gateway Specific Plan would border the project site to the south, with industrial uses replacing the existing residential uses in the area (Figure 6, Airport Gateway Specific Plan). This project is currently undergoing environmental review.

2.3 Project Characteristics

The project would include the demolition of one existing structure and construction of an approximately 54,330-square-foot (gross area, inclusive of mezzanine/office spaces), one-story warehouse building on an approximately 3.01-acre site (gross area). The warehouse building would be composed of approximately 48,330 square feet of warehouse space and 6,000 square feet of mezzanine/office space (Figure 7, Site Plan, Figure 8, Conceptual Elevations, and Figure 9, Conceptual Rendering). The warehouse building would have a maximum height of 42.5 feet when measured from grade. Given that the City's Municipal Code allows for a maximum height of 35 feet in the Business Park zone, a minor variance (Variance No. VAR 22-001) is being requested to accommodate the project's height. Internally, the project would have a clear height of 42.5 feet and would not contain any cold storage space.

Operational Characteristics

The project would support a variety of activities associated with the industrial/warehouse building, including the ingress and egress of passenger vehicles and trucks, the loading and unloading of trucks with designated truck courts/loading areas, and the internal and external movement of materials around the project site via forklifts, pallet jacks, yard hostlers, and similar equipment. In addition, the office space would support general internal office activities related to the industrial/warehouse uses.

On- and Off-Site Improvements

The project would also include improvements along the project's street frontage, including landscaping, fencing, and street and sidewalk improvements. A variety of trees, shrubs, and groundcovers would be planted within the project frontage's landscape setback area, within the landscape areas found around the warehouse building, and throughout the project site (Figure 10, Landscaping Plan).

Site Access and Parking

Access to the project site would be provided by one driveway along Central Avenue and one driveway along 3rd Street.

The project would include a total of 64 passenger parking stalls and 9 high dock door parking stalls. A summary of passenger vehicle parking is provided in Table 2-2.

Table 2-2. Summary of Passenger Parking Stalls

Passenger Parking Stall Type	Number of Stalls
Standard	49
Van ADA	1
ADA	2
EV Van ADA	1
EV ADA	1
EV	5
Clean Air	4
Total Passenger Parking Stalls	64
Trailer Provided	0
Passenger Parking Stalls Required	73

Note: ADA = Americans with Disabilities Act, EV = Electric Vehicle.

Utility Improvements

The project site is currently served by domestic water, sanitary sewer, electrical, natural gas, and telecommunication service. The project would connect to the existing facilities located on and in the immediate vicinity of the project site.

Domestic Water

Domestic water would be provided to the project site by the East Valley Water District (EVWD). The EVWD provides domestic water for the City and for portions of both the City and County of San Bernardino. Water service is provided for residential, commercial, industrial, governmental, and landscaping purposes (City of Highland 2006). The project would connect to the existing 8-inch water line within Central Avenue. Central Avenue also contains an existing 30-inch recycled water line.

Sanitary Sewer

The project site is not currently served by the City's sanitary sewer system, and the project would be installing a septic tank system for sanitary sewer produced on the project site.

Natural Gas, Electrical Service, and Telecommunications

The Southern California Gas Company would provide natural gas service to the project site. The project would connect to an existing 2-inch gas line within Central Avenue.

Southern California Edison would provide electric service. The project would connect to existing electrical lines within Central Avenue. Telecommunication services are provided by AT&T. The project would connect to these existing facilities within Central Avenue.

Storm Drainage

The project site is currently served by curbs and gutters that direct storm drainage to the two existing storm drain lines within 3rd Street (24-inch and 36-inch diameter lines). Under the existing conditions, the western portion of the site is for used-car parking and the east portion is vacant with scattered grass. The site slopes down by approximately 1% from the northeast corner to the southwest corner towards 3rd Street. Existing runoff sheet flows onto 3rd Street and discharges to the 3rd Street storm drain system, and ultimately discharges to the City Creek Channel, Santa Ana River, and finally to the Prado Basin.

The project would involve the construction of a new engineered storm drain system to collect and treat on-site and off-site stormwater runoff. On-site stormwater will be collected via a series of roof drains, curbs, and gutters, and catch basins before being conveyed to an on-site underground infiltration basin located in the western portion of the site. Prior to entering the infiltration basins, stormwater would be pretreated via a continuous deflection separation system, which separates and traps debris, sediment, oil, and grease from stormwater runoff. The infiltration basins would be designed to allow for stormwater flows to infiltrate into the soils. The infiltration basin would be sized to capture and infiltrate flows for a 100-year design storm, consistent with the San Bernardino County Hydraulics Manual. During an extreme storm event greater than a 100-year storm, flows would be discharged through a proposed 8-inch drain pipe that connects to the existing curb inlet in 3rd Street that would lead to the existing 3rd Street storm drain system that would serve as an emergency spillway[1].

2.4 Project Construction and Phasing

The project applicant intends to commence construction on or around June 2022. It is anticipated that construction would take approximately 11 months, concluding in April 2023.[2] Table 2-3 provides a tentative project construction schedule, as used in air quality and greenhouse gas (GHG) emissions impact analysis (refer to Section 3.3 Air

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1 As discussed in further detail in Section 3.10, Hydrology and Water Quality, flows that would be discharged under emergency conditions would be less than what would normally be discharged under the existing conditions.

2 The analysis assumes a construction start date of June 2022, which represents the earliest date construction would initiate. 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.

Quality, and Section 3.8, Greenhouse Gas Emissions, of this IS/MND; also see Appendix A-1, Air Quality, Greenhouse Gas Emission, and Energy Modeling Inputs and Outputs).

Table 2-3. Anticipated Project Construction Schedule

Construction Phase	Duration	Phase Start Date	Phase End Date
Demolition	1 month	June 1, 2022	June 28, 2022
Site Preparation	1 week	June 29, 2022	July 5, 2022
Grading	2 weeks	July 6, 2022	July 15, 2022
Building Construction	8 months	July 16, 2022	February 24, 2023
Paving	1 month	February 25, 2023	March 22, 2023
Architectural Coating	1 month	March 23, 2023	April 17, 2023

2.5 Project Approvals

The actions and/or approvals that the City needs to consider for the proposed project include, but are not limited to, the following. This list is preliminary, and may not be comprehensive:

Lead Agency Approvals

- Conditional Use Permit (CUP 22-002)
- Design Review (DRA 21-024)
- Variance (VAR 22-001)
- Parking Reduction
- Tentative Parcel Map (TPM 22-002)

Subsequent non-discretionary approvals (which would require separate processing through the City) would include, but may not be limited to, a demolition permit, grading permit, building permits, and occupancy permits.

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3 Initial Study Checklist

1. **Project title:**

Northwest Corner of 3rd Street and Central Avenue Warehouse Project

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

City of Highland, Planning Department
27215 Base Line
Highland, California 92346

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

Angela Tafolla
27215 Base Line
Highland, California 92346
909.864.6861 Ext. 259
909.862.3180 (Fax)
atafolla@cityofhighland.org

4. **Project location:**

The project site is located at a 3.01-acre property at the northwestern corner of 3rd Street and Central Avenue in the City of Highland, California. The project site is composed of eight parcels (APNs 1192-561-11, 1192-561-15, 1192-561-16, 1192-561-17, 1192-561-18, 1192-561-19, 1192-561-20, and 1192-561-21). The project site is located at the northwestern corner of 3rd Street and Central Avenue, north of 3rd Street, east of Victoria Avenue, south of W 5th Street, and west of Central Avenue.

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

Patriot Development Partners
12126 West Sunset Boulevard
Los Angeles, California 90094

6. **General plan designation:**

Business Park

7. **Zoning:**

Business Park

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 would include the construction of an approximately 54,330-square-foot (gross area, inclusive of mezzanine/office spaces), one-story warehouse building on an approximately 3.01-acre site (gross area). The warehouse building would be composed of approximately 48,330 square feet of warehouse space and 6,000 square feet of mezzanine/office space.

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

The project site is located within a developed part of the City and is surrounded by a mix of urbanized land uses. Specific land uses in the immediate project area include the following:

- **North**: Commercial uses and single-family homes
- **East**: Industrial uses
- **South**: 3rd Street, undeveloped land, the San Bernardino International Airport and the City of San Bernardino
- **West**: Vacant parcel

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

No outside public agency approvals are required.

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.?

Please refer to Section 3.5, Cultural Resources, and 3.18, Tribal Cultural Resources, of this IS/MND.

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☐ 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

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.

Signature _____ Date 7/7/2022

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 15063(c)(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:

   I. The significance criteria or threshold, if any, used to evaluate each question; and

   II. 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?	☐	☐	☒	☐

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

No Impact. Scenic vistas and other important visual resources are typically associated with natural landforms such as mountains, foothills, ridgelines, and coastlines. The project site is located within in an area with generally flat terrain near the San Bernardino International Airport. Major scenic vistas that are visible from the project site are the San Bernardino and San Gabriel Mountain ranges. They are located approximately 4 miles northeast and 25 miles northwest of the project site, respectively. The City of Highland's General Plan aims to preserve the views of the San Bernardino Mountains and stretches of open space along City Creek and the Santa Ana River (City of Highland 2006). The project site is located 0.7 miles away from the nearest stretches of open space along City Creek and the Santa Ana River. Based on these distances, as well as the presence of existing intervening natural topographical variations and human-made urban features, the project site is not located within the direct viewshed of these scenic vistas. Overall, the project site is located well outside the viewshed of any scenic vistas or other important visual resources. Therefore, no impacts associated with scenic vistas would occur.

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. Scenic highways and routes are a unique component of the circulation system, as they traverse areas of unusual scenic or aesthetic value. The closest officially designated State Scenic Highway is

California SR-38, located 22 miles east of the project site (Caltrans 2018). Based on this distance and intervening natural topography and human-made development, the project site is not located within the viewshed of this officially designated state scenic highway. Therefore, no impacts associated with state scenic highways would occur.

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. Visual character describes the aesthetic setting of a project area. The project is located within an urbanized area of the City and is surrounded by similar light industrial/business park land uses. Section 20171 of the California Public Resources Code defines an "urbanized area" as "an incorporated city that meets either of the following criteria: (1) Has a population of at least 100,000 persons, or (2) Has a population of less than 100,000 persons if the population of that city and not more than two contiguous incorporated cities combined equals at least 100,000 persons." As of January 1, 2021, the California Department of Finance estimated the population of Highland to be 55,060 persons (DOF 2021). However, because the City of Highland is bordered by the City of San Bernardino, which has a population that exceeds 100,000 persons, regarding the determination of significance under this threshold, the project would be considered to result in a significant adverse impact if the project design would conflict with applicable zoning and other regulations governing scenic quality. The proposed project would be consistent with the designated business park zoning per the City's Zoning Map.

To ensure that both current and future development within the City is designed and constructed to conform to existing visual character and quality of the surrounding built environment, the City's Municipal Code includes design standards related to building size, height, and setbacks, as well as landscaping, signage, and other visual considerations. The project is consistent with all applicable regulations outlined in the City's Municipal Code related to scenic quality with the exception of Section 16.24.040, which states that building heights are not to exceed 35 feet within the Business Park zone. The proposed warehouse building would have a maximum height of 42.5 feet. Given that the City's Municipal Code allows for a maximum height of 35 feet in the Business Park Zone, a minor variance (Variance No. VAR 22-001) is being requested to accommodate the project's height. This request for additional height is consistent with other industrial uses in the vicinity. With approval of the minor variance, the project would not conflict with the City's Municipal Code.

The project would be required to apply for a design review by the City's planning commission. This design review is intended to ensure that the proposed project would not interfere with existing or future development within the City, and to ensure the project is consistent with the applicable elements of the general plan. Views of utilitarian project components, such as loading areas and mechanical equipment, would be screened from public view to the maximum extent practicable through the project's site plan design. Parkway and setback landscape areas along the public right-of-way (ROW) would soften views of the project site and enhance the visual quality of the project.

These project components, as well as the City's review of the project's design, would ensure that the project would not degrade the existing visual character and quality of the area. Therefore, impacts would be less than significant.

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

Short-Term Construction Impacts

No Impact. In accordance with the City's Municipal Code Section 8.50.050, Controlled Hours of Operation, construction hours are limited to between the hours of 7:00 a.m. and 10:00 p.m. However, the project's proximity to sensitive receptors would limit construction from 7:00 a.m. to 6:00 p.m. (see Section 3.13, Noise, for more details). As such, project construction would be limited to daytime hours and nighttime lighting would not be required until the project is operational. Therefore, no short-term construction impacts associated with light and glare would occur.

Long-Term Operational Impacts

Less-than-Significant Impact. Consistent with Section 16.40.160 of the City's Development Code, all lighting used on the project site is required to be directed and/or shielded to prevent the light from adversely affecting adjacent parcels, and no structures or features that create adverse glare effects are permitted. Thus, all exterior lighting would be shielded/hooded to prevent light trespass onto nearby properties. A Photometrics Plan, prepared by a certified engineer, must be approved by the Planning Commission in conjunction with the Conditional Use Permit. Additionally, the project would use a variety of non-reflective materials, and although some new reflective improvements (i.e., windows and building front treatments) would be introduced onto the project site, the project as a whole would not be considered a source of glare in the project area. Therefore, long-term impacts associated with light and glare would be less than significant.

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 Dept. 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?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒

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 located in a developed portion of the City. According to the California Department of Conservation's California Important Farmland Finder, the Project site and surrounding area are identified as Other Land (CDOC 2016). "Other Land" is the designation of vacant and nonagricultural land surrounded on all sides by urban development and greater than 40 acres (CDOC 2016). The Project site is not located on or adjacent to any parcels identified as Prime Farmland, Unique Farmland, or Farmland of State Importance (collectively called Important Farmland). Because no Important Farmland is located on the Project site and the surrounding area, development of the Project would not convert or otherwise impact any Important Farmland. Therefore, no impacts associated with conversion of Important Farmland would occur.

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

No Impact. Refer to Section 3.2(a).

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. Refer to Section 3.2(a). The project site is zoned as Business Park and is located within a developed area. There are no areas zoned for forest land within the vicinity of the project site. Therefore, no impacts associated with forest land would occur.

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). The proposed project would not involve the conversion of forest land to non-forest use. Therefore, no impact with forest land would occur.

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 Section 3.2(a). The project site is zoned as Business Park and is located within a developed area. Further, no off-site improvement associated with the project would result in changes to other properties designated as Farmland or forest land. There are no areas zoned for agricultural use or identified as forest land within the vicinity of the project site. Therefore, no impacts associated with forest land would occur.

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?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

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), which includes the non-desert portions of Los Angeles, Riverside, San Bernardino Counties, and all of Orange County, and is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD).

SCAQMD administers SCAB's Air Quality Management Plan (AQMP), which is a comprehensive document outlining an air pollution control program for attaining the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). The most recently adopted AQMP for SCAB is the

2016 AQMP (SCAQMD 2017).[3] The 2016 AQMP focuses on available, proven, and cost-effective alternatives to traditional air quality strategies while seeking to achieve multiple goals in partnership with other entities seeking to promote reductions in GHGs and toxic risk, as well as efficiencies in energy use, transportation, and goods movement (SCAQMD 2017).

The purpose of a consistency finding with regard to the AQMP is to determine if a project is consistent with the assumptions and objectives of the 2016 AQMP and if it would interfere with the region's ability to comply with federal and state air quality standards. SCAQMD has established criteria for determining consistency with the currently applicable AQMP in Chapter 12, Sections 12.2 and 12.3, of the SCAQMD CEQA Air Quality Handbook. These criteria are as follows (SCAQMD 1993):

Consistency Criterion No. 1: Whether the project would result in an increase in the frequency or severity of existing air quality violations, cause or contribute to new violations, or delay timely attainment of the ambient air quality standards or interim emission reductions in the AQMP.

Consistency Criterion No. 2: Whether the project would exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

To address the first criterion, project-generated criteria air pollutant emissions have been estimated and analyzed for significance and are addressed under Section 3.3(b). Detailed results of this analysis are included in Appendix A-1. As presented in Section 3.3(b), the project would not generate construction or operational criteria air pollutant emissions that exceed the SCAQMD's thresholds with mitigation, and the project would therefore be consistent with Criterion No. 1.

The second criterion regarding the potential of the project to exceed the assumptions in the AQMP or increments based on the year of project buildout and phase is primarily assessed by determining consistency between the project's land use designations and its potential to generate population growth. In general, projects are considered consistent with, and not in conflict with or obstructing implementation of, the AQMP if the growth in socioeconomic factors is consistent with the underlying regional plans used to develop the AQMP (SCAQMD 1993). The SCAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by the Southern California Association of Governments (SCAG) for its 2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (SCAG 2016). SCAQMD uses this document, which is based on general plans for cities and counties in the SCAB, to develop the AQMP emissions inventory (SCAQMD 2017).[4] The SCAG RTP/SCS and associated Regional Growth Forecast are generally consistent with the local plans; therefore, the 2016 AQMP is generally consistent with local government plans.

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3 The SCAQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 parts per billion) for the SCAB and the Coachella Valley. Preliminary rule development for the 2022 AQMP is expected to begin in July 2021 including control measures developed through Residential and Commercial Buildings and Mobile Source Working Groups.

4 Information necessary to produce the emissions inventory for SCAB is obtained from the SCAQMD and other governmental agencies, including the California Air Resources Board (CARB), California Department of Transportation, and SCAG. Each of these agencies is responsible for collecting data (e.g., industry growth factors, socioeconomic 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 its Travel Demand Model for estimating/projecting vehicle miles traveled and driving speeds. SCAG's socioeconomic and transportation activities projections in their 2016–2040 RTP/SCS are integrated in the 2016 AQMP (SCAQMD 2017).

The City's General Plan Land Use Map designates the project site as Business Park, and the project site is zoned as Business Park (BP) within the Airport Influence Zone. According to Section 16.24.020 (A), the primary purpose of the BP District is to provide appropriate regulations and suitable locations for light industrial, research and development, and office-based firms seeking pleasant and attractive working environments, and for business support services and commercial uses requiring large parcels (City of Highland 2021). The Municipal Code identifies Warehousing and Wholesaling as permitted, subject to a conditional use permit application (City of Highland 2021). Therefore, the project would be consistent with the existing zoning of the project site and does not propose a change in land use designation. As such, since the proposed project is not anticipated to result in residential population growth or generate an increase in employment that would conflict with existing employment-population projections, it would not conflict with or exceed the assumptions in the 2016 AQMP. Accordingly, the project is consistent with the SCAG RTP/SCS forecasts used in development of the SCAQMD AQMP.

In summary, based on the considerations presented for the two criteria, impacts relating to the project's potential to conflict with or obstruct implementation of the applicable AQMP would be less than significant.

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. Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are used to determine whether a project's individual emissions would have a cumulatively considerable contribution to air quality. If a project's emissions would exceed the SCAQMD significance thresholds, it would be considered to have a cumulatively considerable contribution. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant (SCAQMD 2003a).

A quantitative analysis was conducted to determine whether the project might result in emissions of criteria air pollutants that may cause exceedances of the NAAQS or CAAQS or cumulatively contribute to existing nonattainment of ambient air quality standards. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide, particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM_{10}), particulate matter with an aerodynamic diameter less than or equal to 2.5 microns ($PM_{2.5}$), and lead. Pollutants that are evaluated herein include volatile organic compounds (VOCs) and oxides of nitrogen (NO_x), which are important because they are precursors to O_3, as well as CO, sulfur oxides (SO_x), PM_{10}, and $PM_{2.5}$.

Regarding NAAQS and CAAQS attainment status,[5] the SCAB is designated as a nonattainment area for federal and state O_3 and $PM_{2.5}$ standards (CARB 2019; EPA 2020). The SCAB is also designated as a nonattainment area for state PM_{10} standards; however, it is designated as an attainment area for federal PM_{10} standards. The SCAB is designated as an attainment area for federal and state CO and NO_2 standards,

[5] An area is designated as in attainment when it is in compliance with the NAAQS and/or the CAAQS. These standards for the maximum level of a given air pollutant that can exist in the outdoor air without unacceptable effects on human health or the public welfare are set by the EPA and CARB, respectively. Attainment = meets the standards; attainment/maintenance = achieves the standards after a nonattainment designation; nonattainment = does not meet the standards.

as well as for state sulfur dioxide standards. Although the SCAB has been designated as nonattainment for the federal rolling 3-month average lead standard, it is designated attainment for the state lead standard.[6]

The project would result in emissions of criteria air pollutants for which the California Air Resources Board (CARB) and U.S. Environmental Protection Agency (EPA) have adopted ambient air quality standards (i.e., the NAAQS and CAAQS). Projects that emit these pollutants have the potential to cause, or contribute to, violations of these standards. The SCAQMD CEQA Air Quality Significance Thresholds, as revised in April 2019, set forth quantitative emission significance thresholds for criteria air pollutants, which, if exceeded, would indicate the potential for a project to contribute to violations of the NAAQS or CAAQS. Table 3.3-1 lists the revised SCAQMD Air Quality Significance Thresholds (SCAQMD 2019).

Table 3.3-1. South Coast Air Quality Management District Air Quality Significance Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	**Construction (Pounds per Day)**	**Operation (Pounds per Day)**
VOCs	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead[a]	3	3
TACs and Odor Thresholds		
TACs[b]	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden >0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	

Source: SCAQMD 2019.
Notes: VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; TAC = toxic air contaminant; SCAQMD = South Coast Air Quality Management District.
GHG emissions thresholds for industrial projects, as added in the March 2015 revision to the SCAQMD Air Quality Significance Thresholds, were not include included in this table as they are addressed within the GHG emissions analysis and not the air quality analysis.

a The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

b TACs include carcinogens and noncarcinogens.

The project would result in a cumulatively considerable net increase for O_3, which is a nonattainment pollutant, if the project's construction or operational emissions would exceed the SCAQMD VOC or NO_x thresholds shown in Table 3.3-1. These emission-based thresholds for O_3 precursors are intended to serve as a surrogate for an O_3 significance threshold (i.e., the potential for adverse O_3 impacts to occur) because O_3 itself is not emitted

6 Re-designation of the lead NAAQS designation to attainment for the Los Angeles County portion of the SCAB is expected based on current monitoring data. The phase-out of leaded gasoline started in 1976. Since gasoline no longer contains lead, the project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.

directly, and the effects of an individual project's emissions of O_3 precursors (i.e., VOCs and NO_x) on O_3 levels in ambient air cannot be determined through air quality models or other quantitative methods.

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from construction and operation of the project, with the exception of operational mobile source emissions.[7] The following discussion quantitatively evaluates project-generated construction and operational emissions and impacts that would result from implementation of the project.

Construction Emissions

Construction of the project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (e.g., off-road construction equipment, soil disturbance, and VOC off-gassing from architectural coatings and asphalt pavement application) and off-site sources (e.g., vendor trucks, haul trucks, and worker vehicle trips). Specifically, entrained dust results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil, resulting in PM_{10} and $PM_{2.5}$ emissions. Internal combustion engines used by construction equipment, haul trucks, vendor trucks (i.e., delivery trucks), and worker vehicles would result in emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$. 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.

Emissions from the construction phase of the project were estimated using CalEEMod default values. For the purpose of conservatively estimating project emissions, construction was modeled beginning in June 2022 and concluding in April 2023,[8] lasting approximately 11 months. As a result of demolition, approximately 2,357 tons of debris were estimated to be exported from the site. The analysis contained herein is based on the following schedule assumptions (duration of phases is approximate):

- Demolition: 1 month (June 2022)
- Site preparation: 1 week (July 2022)
- Grading: 2 weeks (July 2022)
- Building construction: 8 months (July 2022–February 2023)
- Paving: 1 month (February 2023 – March 2023)
- Application of architectural coatings: 1 month (March 2023 – April 2023)

Construction modeling assumptions for equipment and vehicles are provided in Table 3.3-2. Equipment mix and horsepower were based on CalEEMod default values, including equipment load factor. The site would require the import of approximately 188 cubic yards of earthwork materials to balance the site during the grading phase. For the analysis, it was generally assumed that heavy-duty construction equipment would be operating at the site 5 days per week.

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7 CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with construction and operational activities from a variety of land use projects, including warehouses.

8 The analysis assumes a construction start date of June 2022, which represents the earliest date construction would initiate. 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 3.3-2. 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
Demolition	16	4	234	Concrete/Industrial Saws	1	8
				Excavators	3	8
				Rubber Tired Dozers	2	8
Site Preparation	18	4	0	Rubber Tired Dozers	3	8
				Tractors/Loaders/Backhoes	4	8
Grading	16	4	24	Excavators	1	8
				Graders	1	8
				Rubber Tired Dozers	1	8
				Tractors/Loaders/Backhoes	3	8
Building Construction	56	22	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	12	4	0	Air Compressors	1	6

Emissions generated during construction (and operation) of the project are subject to the rules and regulations of the SCAQMD. Rule 403, Fugitive Dust, requires the implementation of measures to control the emission of visible fugitive/nuisance dust, such as wetting soils that would be disturbed. It was assumed that the active sites would be watered at least twice times daily and on-site off-road travel would be limited to 15 miles per hour. The application of architectural coatings, such as exterior/interior paint and other finishes, and the application of asphalt pavement would also produce VOC emissions; however, the contractor is required to procure architectural coatings that comply with the requirements of SCAQMD's Rule 1113, Architectural Coatings.[9]

[9] SCAQMD Rule 1113, Architectural Coatings, requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Table 3.3-3 shows the estimated maximum daily construction emissions associated with the construction phase of the project.

Table 3.3-3. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds Per Day					
2022	3.24	33.33	21.70	0.04	10.69	6.09
2023	28.97	15.35	18.52	0.04	1.47	0.87
Maximum	*28.97*	*33.33*	*21.70*	*0.04*	*10.69*	*6.09*
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; SCAQMD = South Coast Air Quality Management District.
The values shown are the maximum summer or winter daily emissions results from CalEEMod.
These estimates reflect control of fugitive dust required by SCAQMD Rule 403.

As shown in Table 3.3-3, daily construction emissions would not exceed the SCAQMD significance thresholds for VOC, NO_x, CO, SO_x, PM_{10}, or $PM_{2.5}$ during project construction, and short-term construction impacts would be less than significant.

Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod. Operational year 2023 was assumed following completion of construction.

Area Sources

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

Consumer products are chemically formulated products used by household and institutional consumers, including:

- Detergents
- Cleaning compound
- Polishes
- Floor finishes
- Cosmetics
- Personal care products
- Home, lawn, and garden products
- Disinfectants
- Sanitizers
- Aerosol paints
- Automotive specialty products

Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2021). Consumer product VOC emissions were estimated in CalEEMod based on the floor area of

buildings and default factor of pounds of VOC per building square foot per day. The CalEEMod default values for consumer products were assumed.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings, such as in paints and primers used during building maintenance. CalEEMod calculates the VOC evaporative emissions from the application of surface coatings based on the VOC emission factor, the building square footage, the assumed fraction of surface area, and the reapplication rate. The VOC emissions factor is based on the VOC content of the surface coatings, and SCAQMD's Rule 1113, Architectural Coatings, governs the VOC content for interior and exterior coatings. This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SCAQMD 2016). CalEEMod default values were assumed, including the surface area to be painted, the VOC content of architectural coatings, and the reapplication rate of 10% of area per year.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers. The emissions associated with landscape equipment use were estimated based on CalEEMod default values for emission factors (grams per square foot of building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

Mobile Sources

Following the completion of construction activities, the Project would generate criteria pollutant emissions from mobile sources (vehicular traffic) as a result of employees and visitors of the project. Based on the trip generation for the project (as shown in Section 3.17), there would be 96 total vehicle trips per day, 26 of which are trucks and 70 are passenger cars. The truck breakdown by axle was also taken from the SCAQMD Warehouse Truck Trip Study Data Results and Usage, July 2014. CalEEMod was used to estimate emissions from proposed vehicular sources (refer to Attachment A-1). CalEEMod default data, including temperature, trip characteristics, variable start information, and emissions factors, were conservatively used for the model inputs. Project-related traffic was assumed to include a mixture of vehicles in accordance with the associated use (as discussed below), as modeled within CalEEMod, which is based on the California Air Resources Board (CARB) EMFAC2017 model. Emission factors representing the vehicle mix and emissions for 2023 were used to estimate emissions associated with vehicular sources. Two land uses in CalEEMod were used to model emissions from mobile sources. The "unrefrigerated warehouse-rail" land use was used to model trucks and the "unrefrigerated warehouse-no rail" was used to model passenger cars. The trip rates (as stated above) were apportioned to each land use accordingly. The fleet mix for trucks was determined based off the SCAQMD Warehouse study and included the following vehicle categories: 2-axle trucks (50% LHD1 and 50% LHD2), 3-axle trucks (MHD), and 4-axle trucks (HHD). The fleet mix for passenger vehicles was assumed consistent with the EMFAC fleet mix for the air basin for the following vehicle categories: LDA, LDT1, LDT2, and MDV. Vehicle trip lengths were assumed to be 40 miles for truck trips (in accordance with SCAQMD guidance) and the CalEEMod defaults for passenger car trips.

On May 7, 2021, the SCAQMD adopted the Warehouse Indirect Source Rule, Rule 2305. Rule 2305 was adopted to facilitate local and regional emission reductions associated with existing and new warehouses with an indoor warehouse floor space equal to or greater than 100,000 square feet within a single building and the mobile sources associated with these warehouses. Under Rule 2305, operators of applicable

existing and new warehouses are subject to an annual Warehouse Actions and Investments to Reduce Emissions Points Compliance Obligation intended to reduce regional and local emissions from warehouse indirect sources. Based on the approximately 54,330-square-foot warehouse building proposed for the project, Rule 2305 would not be applicable to the project.

Off-Road Equipment (Forklifts)

The exact operational off-road equipment is unknown at this time; however, in a good faith effort to include anticipated forklifts, forklifts were estimated based on the warehouse square footage and the SCAQMD study, as described below.

The SCAQMD published a summary of operational survey results from 34 operating high-cube warehouses (SCAQMD 2014). The SCAQMD survey reported an average of 0.12 forklifts/pallet jacks per 1,000 square feet of building area, which was applied to the project. Note that this estimate is for total forklifts and pallet jacks. Pallet jacks are small as they are primarily used to lift small loads in tight quarters (and are electric or manual); therefore, assuming all pieces of equipment are forklifts is conservative. For the project, a total of 7 forklifts were assumed. Of the total 7 forklifts, 2 of the forklifts were modeled as diesel powered. The remaining 5 forklifts are assumed to be electric-operated. All 7 forklifts are assumed to operate 8 hours per day and 7 days per week at the project site. CalEEMod was used to estimate emissions from diesel powered forklifts while a spreadsheet model was used to estimate the energy consumption and GHG emissions from the electric forklifts, see Appendix A-1.

Table 3.3-4 presents the maximum daily emissions associated with operation of the project in 2023 at buildout. The values shown are the maximum summer and winter daily emissions results from CalEEMod. Complete details of the emissions calculations are provided in Appendix A-1.

Table 3.3-4. Estimated Maximum Daily Operation Criteria Air Pollutant Emissions

Emissions Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Area	1.24	<0.01	0.01	0.00	<0.01	<0.01
Energy	<0.01	0.03	0.02	<0.01	<0.01	<0.01
Mobile	0.20	4.55	3.51	0.03	1.73	0.50
Off-road (Forklifts)	0.21	2.80	4.57	0.01	0.09	0.08
Total	**1.65**	**7.38**	**8.11**	**0.04**	**1.82**	**0.58**
SCAQMD Threshold	*55*	*55*	*550*	*150*	*150*	*55*
Threshold Exceeded?	No	No	No	No	No	No

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; <0.01 = reported value less than 0.01.
See Appendix A-1 for complete results.

As shown in Table 3.3-4, maximum daily operational emissions of VOC, NO_x, CO, SO_x, PM_{10}, and $PM_{2.5}$ generated by the project would not exceed the SCAQMD's significance thresholds, and long-term operational impacts would be less than significant.

As previously discussed, the SCAB has been designated as a federal nonattainment area for O_3 and $PM_{2.5}$ and a state nonattainment area for O_3, PM_{10}, and $PM_{2.5}$. However, as indicated in Tables 3.3-3 and 3.3-4,

project-generated construction and operational emissions would not exceed the SCAQMD emission-based significance thresholds for VOCs, NO_x, PM_{10}, or $PM_{2.5}$.

Cumulative localized impacts would potentially occur if a project were to occur concurrently with another off-site project. Schedules for potential future projects near the project area are currently unknown; therefore, potential impacts associated with two or more simultaneous projects would be considered speculative.[10] However, future projects would be subject to CEQA and would require air quality analysis and, where necessary, mitigation. Criteria air pollutant emissions associated with construction activity of future projects would be reduced through implementation of control measures required by the SCAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to SCAQMD Rule 403 (Fugitive Dust), which sets forth general and specific requirements for all sites in the SCAQMD. Additionally, cumulative VOC emissions would be reduced because all future projects would be subject VOC content of the surface coatings, SCAQMD's Rule 1113, Architectural Coatings, governs the VOC content for interior and exterior coatings.

Therefore, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and impacts would be less than significant during construction and operation.

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

Less-than-Significant Impact with Mitigation Incorporated. The project would not expose sensitive receptors to substantial pollutant concentrations, as evaluated in the following text.

Sensitive Receptors

Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to the SCAQMD, sensitive receptors include sites such as residences, schools, playgrounds, childcare centers, long-term healthcare facilities, rehabilitation centers, convalescent centers, and retirement homes (SCAQMD 1993). The nearest sensitive receptors are residential uses located immediately east of 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 as a result of project activities. The impacts were analyzed using methods consistent with those in the SCAQMD's Final Localized Significance Threshold Methodology (SCAQMD 2008a). The project is located within Source-Receptor Area 34 (Central San Bernardino Valley). This analysis applies the SCAQMD LST values for a 3-acre site within Source-Receptor Area 34 with a receptor distance of 25 meters (82 feet), which is the shortest available distance provided in the SCAQMD's methodology.

[10] The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145).

Project construction activities would result in temporary sources of on-site criteria air pollutant emissions associated with off-road equipment exhaust and fugitive dust generation. According to the Final Localized Significance Threshold Methodology, "off-site mobile emissions from the project should not be included in the emissions compared to the LSTs" (SCAQMD 2008a). Trucks and worker trips associated with the project are not expected to cause substantial air quality impacts to sensitive receptors along off-site roadways since emissions would be relatively brief in nature and would cease once the vehicles pass through the main streets. Off-site emissions from truck trips were limited to 1,000 feet of estimated on-site activity within the LST analysis. The maximum daily on-site emissions generated by construction and operation of the project are presented in Table 3.3-5 and compared to the SCAQMD localized significance criteria for Source-Receptor Area 34 to determine whether project-generated on-site emissions would result in potential LST impacts.

Table 3.3-5. Construction and Operational Localized Significance Thresholds Analysis - Unmitigated

	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
Construction				
Maximum	*33.15*	*20.90*	*10.46*	*6.03*
SCAQMD LST Criteria[a]	*203.33*	*1,230.00*	*9.33*	*5.33*
Threshold Exceeded?	**No**	**No**	**Yes**	**Yes**
Operation				
Maximum	3.23	5.29	0.11	0.09
SCAQMD LST Criteria[a]	*203.33*	*1,230.00*	*2.67*	*1.33*
Threshold Exceeded?	**No**	**No**	**No**	**No**

Source: SCAQMD 2008a; Appendix A-1.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
Maximum on-site emissions occurred during the overlap of the following phases: grading and site preparation.
[a] LST are shown for a 3-acre disturbed area corresponding to a distance to a sensitive receptor of 25 meters in Source-Receptor Area 34 (Central San Bernardino Valley).

As shown in Table 3.3-5, proposed construction activities would generate emissions in excess of site-specific LSTs for PM_{10} and $PM_{2.5}$.

MM-AQ-1: Construction Equipment Emissions Reductions. The following measures shall be incorporated into the project to reduce construction criteria air pollutant emissions, including VOC, NOx, CO, PM_{10}, and $PM_{2.5}$, generated by construction equipment used for the project. Prior to the issuance of a grading permit, the following shall be incorporated into the grading plan and/or grading permit conditions:

For off-road equipment with engines rated at 50 horsepower or greater, no construction equipment shall be used that is less than Tier 4 Interim. An exemption from these requirements may be granted in the event that the applicant documents that equipment with the required tier is not

reasonably available and corresponding reductions in criteria air pollutant emissions are achieved from other construction equipment[11].

Before an exemption may be considered, the applicant shall be required to demonstrate that two construction fleet owners/operators in the region were contacted and that those owners/operators confirmed Tier 4 Interim or better equipment could not be located in the region[12]. To ensure that Tier 4 construction equipment or better would be used during the Proposed Project's construction, the applicant will include this requirement in applicable bid documents, purchase orders, and contracts. Successful contractor(s) must demonstrate the ability to supply the compliant construction equipment for use prior to any ground disturbing and construction activities. A copy of each unit's certified tier specification or model year specification and CARB or SCAQMD operating permit (if applicable) shall be available upon request at the time of mobilization of each applicable unit of equipment.

Implementation of **MM-AQ-1** would reduce project construction-generated $PM_{2.5}$ emissions to the extent feasible. The LST results after incorporation of **MM-AQ-1** are presented in Table 3.3-6.

Table 3.3-6. Construction Localized Significance Thresholds Analysis - Mitigated

	NO_2	CO	PM_{10}	$PM_{2.5}$
	Pounds per Day (On Site)			
Maximum	*13.87*	*24.98*	*8.91*	*4.61*
SCAQMD LST Criteria[a]	*203.33*	*1,230.00*	*9.33*	*5.33*
Threshold Exceeded?	No	No	No	No

Source: SCAQMD 2008a; Appendix A-1.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = particulate matter with a diameter less than or equal to 10 microns (coarse particulate matter); $PM_{2.5}$ = particulate matter with a diameter less than or equal to 2.5 microns (fine particulate matter); SCAQMD = South Coast Air Quality Management District; LST = localized significance threshold.
Maximum on-site emissions occurred during the overlap of the following phases: grading and site preparation.
This includes implementation of mitigation measure MM-AQ-1.
[a] LST are shown for a 3-acre disturbed area corresponding to a distance to a sensitive receptor of 25 meters in Source-Receptor Area 34 (Central San Bernardino Valley).

As shown in Table 3.3-6, implementation of **MM-AQ-1** would reduce construction-generated PM_{10} and $PM_{2.5}$ to levels below SCAQMD thresholds. Thus, impacts would be **less than significant** with mitigation.

Carbon Monoxide 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." The transport of CO is extremely limited, as it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthy levels, affecting sensitive receptors. Typically, high CO

[11] For example, if a Tier 4 Interim piece of equipment is not reasonably available at the time of construction and a lower tier equipment is used instead (e.g., Tier 3), another piece of equipment could be upgraded from a Tier 4 Interim to a higher tier (i.e., Tier 4 Final) or replaced with an alternative-fueled (not diesel-fueled) equipment to offset the emissions associated with using a piece of equipment that does not meet Tier 4 Interim standards.

[12]

concentrations are associated with severely congested intersections operating at an unacceptable level of service (LOS) (LOS E or worse is unacceptable). 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. As discussed in Section 3.17, Transportation, the proposed project is forecast to generate 17 a.m. peak hour trips and 17 p.m. peak hour trips (passenger car equivalent-adjusted), the proposed project would not exceed the 250 two-way peak hour trip threshold for the preparation of a TIA per the Congestion Management Plan (CMP) or the 100 two-way peak hour trip threshold for preparation of a TIA per the City's Traffic Study Guidelines. Therefore, a TIA and further LOS analysis would not be required, unless requested by the City for a focused analysis of specific facilities.

In addition, at the time that the SCAQMD Handbook (SCAQMD 1993) was published, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO. In 2007, the SCAQMD was designated in attainment for CO under both the CAAQS and NAAQS as a result of the steady decline in CO concentrations in the SCAB due to turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities. The SCAQMD conducted CO modeling for the 2003 AQMP[13] (SCAQMD 2003b) for the four worst-case intersections in the SCAB:

(1) Wilshire Boulevard and Veteran Avenue
(2) Sunset Boulevard and Highland Avenue
(3) La Cienega Boulevard and Century Boulevard
(4) Long Beach Boulevard and Imperial Highway

At the time the 2003 AQMP was prepared, the intersection of Wilshire Boulevard and Veteran Avenue was the most congested intersection in Los Angeles County, with an average daily traffic volume of about 100,000 vehicles per day. The 2003 AQMP projected 8-hour CO concentrations at these four intersections for 1997 and from 2002 through 2005. From years 2002 through 2005, the maximum 8-hour CO concentration was 3.8 parts per million at the Sunset Boulevard and Highland Avenue intersection in 2002 and the maximum 8-hour CO concentration was 3.4 parts per million at the Wilshire Boulevard and Veteran Avenue in 2002.

Accordingly, CO concentrations at congested intersections would not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day. Because the project is not anticipated to increase daily traffic volumes at any study intersection to more than 100,000 vehicles per day, a CO hotspot is not anticipated to occur.

Based on these considerations, the project would not generate traffic that would contribute to potential adverse traffic impacts that may result in the formation of CO hotspots. This conclusion is supported by the analysis in Section 3.17, which demonstrates that traffic impacts would be less than significant. In addition, due to continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCAB is steadily decreasing. Based on these considerations, the project would result in a less-than-significant impact to air quality with regard to potential CO hotspots.

[13] SCAQMD's CO hotspot modeling guidance has not changed since 2003.

Toxic Air Contaminants

In addition to impacts from criteria pollutants, certain projects may include emissions of pollutants identified by the state and federal government as toxic air contaminants (TACs) or hazardous air pollutants. State law has established the framework for California's TAC identification and control project, which is generally more stringent than the federal project, and is aimed at TACs that are a problem in California. The state has formally identified more than 200 substances as TACs, including the federal hazardous air pollutants, and is adopting appropriate control measures for sources of these TACs.

In an abundance of caution, a voluntary health risk assessment (HRA) was performed for construction and operation of the project, as discussed below, is presented in Appendix A-2.

The most recent guidance from the Office of Environmental Health Hazard Assessment (OEHHA) is the 2015 Risk Assessment Guidelines Manual (OEHHA 2015), which was adopted in 2015 to replace the 2003 HRA Guidance Manual. The Children's Environmental Health Protection Act of 1999 (Senate Bill 25), which requires explicit consideration of infants and children in assessing risks from air toxics, required revisions of the methods for both non-cancer and cancer risk assessment and of the exposure assumptions in the 2003 HRA Guidance Manual. Cancer risk parameters, such as age-sensitivity factors, daily breathing rates, exposure period, fraction of time at home, and cancer potency factors were based on the values and data recommended by OEHHA as implemented in the Hotspots Analysis and Reporting Program Version 2 (HARP2). SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2018) and Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (SCAQMD 2003c) provide guidance to perform dispersion modeling for use in HRAs within the SCAB.

Health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SCAQMD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Some TACs increase noncancer health risk due to long-term (chronic) exposures. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system. The Chronic Hazard Index estimates for all receptor types used the OEHHA-derived calculation method, which uses high-end exposure parameters for the inhalation and next top two exposure pathways and mean exposure parameters for the remaining pathways for non-cancer risk estimates. The Chronic Hazard Index is the sum of the individual substance chronic hazard indices for all TACs affecting the same target organ system.[14] A hazard index less than 1.0 means that adverse health effects are not expected. Within this analysis, noncarcinogenic exposures of less than 1.0 are considered less than significant. The SCAQMD recommends a Chronic Hazard Index significance threshold of 1.0 (project increment) and an acute hazard index of 1.0.

The greatest potential for TAC exposure from project construction and operation is from diesel particulate matter (DPM), as the exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure values are established and regulated and therefore these are not addressed in this assessment.

[14] The Chronic Hazard Index estimates for all receptor types used the OEHHA-derived calculation method (OEHHA 2015).

The dispersion modeling was performed using AERMOD, which is the model SCAQMD requires for atmospheric dispersion of emissions. AERMOD (Version 21112) is a steady-state Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of surface and elevated sources, building downwash, and simple and complex terrain (EPA 2018a).

Construction Health Risk

Construction Health Risk Assessment

An HRA was performed to evaluate potential health risk associated with construction 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 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 1,000 feet (0.19 miles) to estimate emissions from truck pass-by at proximate receptors.

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2022a). Air dispersion modeling was performed using the EPA's AERMOD Version 21112 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 10.2.1. The HRA followed OEHHA 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 3.3-7.

Table 3.3-7. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Redlands air monitoring station (RDLD) was used for the dispersion modeling (SCAQMD 2022b). A 5-year meteorological data set from 2012 through 2016 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban dispersion option was selected due to the developed nature of the project area and per SCAQMD guidelines.
Terrain Characteristics	The elevation of the site is 1,159 feet (353 meters) above sea level.
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 United States Geological Survey's National Elevation Dataset format with a resolution of 1/3 degree (approximately 10 meters), consistent with the SCAQMD guidance (SCAQMD 2022a).

Table 3.3-7. American Meteorological Society/Environmental Protection Agency Regulatory Model Principal Parameters

Parameter	Details
Source Release Characterizations	Air dispersion modeling of DPM emissions was conducted assuming the off-road equipment would operate in accordance with the modeling scenario estimated in CalEEMod (Appendix A-1). The construction equipment and on-site truck travel DPM emissions were modeled as a line of adjacent volume sources across the project site to represent project construction with a release height of 3.4 meters, plume height of 6.8 meters, and plume width of 8.6 meters (EPA 2018a).

Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District; DPM = diesel particular matter; CalEEMod = California Emissions Estimator Model.
See Appendix A.

Regarding receptors, the construction scenario used Cartesian receptor grids with 38-meter spacing to establish the impact area and evaluate locations of maximum health risk impact for residential areas in close proximity to the site (SCAQMD 2022a). Discrete receptors were placed over residential and daycare facilities in closest proximity to the site.

The health risk calculations were performed using HARP2 Air Dispersion and Risk Tool (ADMRT, dated 21081). AERMOD was run with all sources emitting unit emissions (1 gram per second) to obtain the necessary input values for 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-cancer chronic health indices. There is no reference exposure level (REL) for acute health impacts from DPM, and, thus, acute risk was not evaluated.

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 purposes of this construction HRA, given the less-than-lifetime exposure period, and the higher breathing rates and sensitivity of children to TACs, the cancer risk calculation assumes that the exposure would affect children early in their lives. The 11-month exposure duration was assumed to start during the third trimester of pregnancy through 11 months of age based on the duration of construction. The exposure pathway for DPM is inhalation only.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs since some TACs increase non-cancer health risk due to long-term (chronic) exposures and some TACs increase non-cancer health risk due to short-term (acute) exposures. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in the HRA. 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 REL, 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 of than 1.0 means that adverse health effects are not expected.

The Maximum Individual Cancer Risk and the Chronic Hazard Index for residential receptors as a result of project construction are presented in Table 3.3-8.

Table 3.3-8. Construction Health Risk Assessment Results – Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk–Residential	Per Million	81.9	10	**Potentially Significant**
Chronic Hazard Index–Residential	Index Value	0.1	1.0	Less than Significant

Source: SCAQMD 2019.
Note: CEQA = California Environmental Quality Act.
See Appendix A-2.

As shown in Table 3.3-8, project construction activities would result in a Residential Maximum Individual Cancer Risk of 81.9 in 1 million, which exceeds the significance threshold of 10 in 1 million. Project construction would result in a Residential Chronic Hazard Index of 0.1, which is below the 1.0 significance threshold.

As shown in Table 3.3-8, the construction HRA results from the unmitigated scenario show cancer risks exceeding the 10 in 1 million threshold and thus a potentially significant impact at the maximally exposed individual residential receptors. Implementation of **MM-AQ-1** would reduce project construction-generated DPM missions to the extent feasible. The HRA results after incorporation of **MM-AQ-1** are presented in Table 3.3-9.

Table 3.3-9. Construction Health Risk Assessment Results – Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk–Residential	Per Million	9.88	10	Less than significant
Chronic Hazard Index–Residential	Index Value	0.01	1.0	Less than Significant

Source: SCAQMD 2019.
Notes: CEQA = California Environmental Quality Act.
See Appendix A-2.

Implementation of **MM-AQ-1** would reduce construction-generated health risks to levels below SCAQMD thresholds. Thus, impacts would be **less than significant** with mitigation.

Operational Health Risk

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

CARB's Air Quality and Land Use Handbook: A Community Health Perspective encourages consideration of the health impacts of distribution centers that accommodate more than 100 trucks per day on sensitive receptors sited within 1,000 feet from the source in the land use decision-making process (CARB 2005). For the operational HRA (included as Appendix A-2), operational year 2023 was assumed, consistent with completion of project construction. Emissions from the operation of the project include forklifts, truck trips, and truck idling emissions. For risk assessment purposes, PM_{10} in diesel exhaust is considered DPM, originating mainly from forklifts, trucks traveling on site and off site, and trucks idling at the loading docks. Truck travel and idling emission rates were obtained from CARB's EMFAC2017. Emission factors

representing the vehicle mix and emissions for 2023 were used to estimate emissions associated with operation of the project. Truck idling would be limited to 5 minutes in accordance with CARB's adopted Airborne Toxic Control Measure; however, truck idling was conservatively assumed to idle for 15 minutes.[15] Therefore, the analysis conservatively overestimates DPM emissions from idling. Deliveries would occur every day of the week. A total of 2 forklifts were assumed to operate with the project loading dock areas.

Conservatively, a 2023 EMFAC2017 run was conducted and a constant 2023 emission factor data set was used for the entire duration of the analysis (i.e., 30 years). Use of the 2023 emission factors would overstate potential impacts since this approach does not include reductions in emissions due to fleet turnover or cleaner technology with lower emissions. The truck travel DPM emissions were calculated by applying the exhaust PM_{10} emission factor from EMFAC2017 and the total truck trip number over the length of the distance traveled. In addition, the on-site truck idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor from EMFAC2017 and total truck trip over the total idling time (i.e., 15 minutes). The truck traffic was modeled as a line of adjacent volume sources with truck traffic entering and exiting the project site south via 3rd Street and head west on 3rd Street to Victoria Street. The trucks would travel north on Victoria Street and head east on W 5th Street to the SR-210. Truck idling was modeled as stationary point sources at the 9 truck loading bays. The forklifts were modeled as a line of adjacent volume sources operating within the truck loading bay area.

As previously described, health effects from carcinogenic air toxics are usually described in terms of cancer risk. The SCAQMD recommends a carcinogenic (cancer) risk threshold of 10 in one million. Some TACs increase noncancer health risk due to long-term (chronic) exposures. A hazard index less than one (1.0) means that adverse health effects are not expected. Within this analysis, noncarcinogenic exposures of less than 1.0 are considered less than significant. The exhaust from diesel engines is a complex mixture of gases, vapors, and particles, many of which are known human carcinogens. DPM has established cancer risk factors and relative exposure values for long-term chronic health hazard impacts. No short-term, acute relative exposure values are established and regulated and are therefore not addressed in this assessment.

The air dispersion modeling methodology was based on generally accepted modeling practices of SCAQMD (SCAQMD 2022a). Air dispersion modeling was performed using the EPA's AERMOD (Version 21112) modeling system with the Lakes Environmental Software implementation/user interface, AERMOD View Version 10.2.1. The HRA followed the OEHHA 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 3.3-10.

[15] Although the project is required to comply with CARB's idling limit of 5 minutes, on-site idling emissions was estimated for 15 minutes of truck idling, which would take into account on-site idling while the trucks are waiting to pull up to the loading dock, idling at the loading dock, and idling during check-in and check-out.

Table 3.3-10. Operational Health Risk Assessment American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model Operational Principal Parameters

Parameter	Details
Meteorological Data	AERMOD-specific meteorological data for the Redlands air monitoring station (RDLD) was used for the dispersion modeling (SCAQMD 2022b). A 5-year meteorological data set from 2012 through 2016 was obtained from the SCAQMD in a preprocessed format suitable for use in AERMOD.
Urban versus Rural Option	Urban dispersion option was selected due to the developed nature of the project area and per SCAQMD guidelines.
Terrain Characteristics	The elevation of the site is 1,159 feet (353 meters) above sea level.
Emission Sources and Source Release Parameters	Air dispersion modeling of operational activities was conducted using emissions generated using EMFAC2017 and CalEEMod. Off-site and on-site truck travel were modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.59 meters (SBCAPCD 2020; EPA 2015). The truck idling emissions at loading docks were modeled as point sources with a release height of 3.962 meters, inside stack diameter of 0.305 meters and an exist velocity of 11.83 m/s (EPA 2015; SCAQMD 2003b; SJVAPCD 2006). The project warehouse building was modeled to account for building downwash for point sources. Forklifts were modeled as a line of adjacent volume sources, and based on EPA methodology, the modeled sources would result in a release height of 3.4 meters, a plume height of 6.8 meters, and a plume width of 8.6 meters

Note: AERMOD = American Meteorological Society/Environmental Protection Agency Regulatory Model; SCAQMD = South Coast Air Quality Management District; EPA = U.S. Environmental Protection Agency.
See Appendix A-2.

Regarding receptors, the construction scenario used Cartesian receptor grids with 38-meter spacing to establish the impact area and evaluate locations of maximum health risk impact for residential areas in close proximity to the site (SCAQMD 2022a). Discrete receptors were placed over residential and daycare facilities in closest proximity to the site.

The health risk calculations were performed using the HARP2 Air Dispersion and Risk Tool (ADMRT, dated 21081). AERMOD was run with all sources or source groups emitting unit emissions (1 gram per second) to obtain the necessary input values for 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-cancer chronic health indices. There is no REL for acute health impacts from DPM, and, thus, acute risk was not evaluated.

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. The HRA assumes exposure would start in the third trimester of pregnancy through 30 years for all residential sensitive receptor locations. The exposure pathway for DPM is inhalation only.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs since some TACs increase non-cancer health risk due to long-term (chronic) exposures and some TACs increase non-cancer health risk due to short-term (acute) exposures. No short-term, acute relative exposure level has been established for DPM; therefore, acute impacts of DPM are not addressed in the HRA. Chronic exposure is evaluated in the operational HRA. Non-carcinogenic risks are quantified by calculating a hazard index, expressed as the ratio between the ambient pollutant concentration and its toxicity or REL, 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 of than one (1.0) means that adverse health effects are not expected.

The results of the health risk assessment during operation are provided in Table 3.3-11.

Table 3.3-11. Operational Health Risk Assessment Results - Unmitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk–Residential	Per Million	33.6	10	**Potentially Significant**
Chronic Hazard Index–Residential	Index Value	0.01	1.0	Less than Significant

Source: SCAQMD 2019.
Notes: CEQA = California Environmental Quality Act.
See Appendix A-2.

As shown in Table 3.3-11, project operation would result in a Residential Maximum Individual Cancer Risk of 33.6 in 1 million, which is above the significance threshold of 10 in 1 million. Project operation would result in a Residential Chronic Hazard Index of 0.01, which is below the 1.0 significance threshold. The project operational TAC health risk impacts would be **potentially significant** and mitigation is required.

MM-AQ-2: Operational Forklifts. The project shall include the use of natural gas powered forklifts for use during operation of the project to load and unload trucks within the truck loading area.

The results of the health risk assessment during operation including mitigation measure **MM-AQ-2** are provided in Table 3.3-12.

Table 3.3-12. Operational Health Risk Assessment Results - Mitigated

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk–Residential	Per Million	1.0	10	Less than Significant
Chronic Hazard Index–Residential	Index Value	0.0003	1.0	Less than Significant

Source: SCAQMD 2019.
Notes: CEQA = California Environmental Quality Act.
See Appendix A-2.

As shown in Table 3.3-12, project operation would result in a Residential Maximum Individual Cancer Risk of 1.0 in 1 million, which is below the significance threshold of 10 in 1 million. Project operation would result in a Residential Chronic Hazard Index of 0.0003, which is below the 1.0 significance threshold. The project operational TAC health risk impacts would be **Less than Significant** with mitigation.

Health Effects of Criteria Air Pollutants

Construction and operation of the project would generate criteria air pollutant emissions; however, estimated construction and operational emissions would not exceed the SCAQMD mass-emission daily thresholds as shown in Tables 3.3-3 and 3.3-4, respectively. As previously discussed, the SCAB has been designated as a federal nonattainment area for O_3 and $PM_{2.5}$ and a state nonattainment area for O_3, 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 2021). 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 from the source location to allow time for the photochemical reactions to occur. However, 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 ambient air quality standards tend to occur between April and October when solar radiation is highest. The holistic effect of a single project's emissions of O_3 precursors is speculative because of the lack of quantitative methods to assess this impact. Because construction and operation of the project would not result in O_3 precursor emissions (i.e., VOCs or NO_X) that would exceed the SCAQMD thresholds (as shown in Tables 3.3-3 and 3.3-4) the project is not anticipated to substantially contribute to regional O_3 concentrations and their associated health impacts.

Health effects associated with NO_x include lung irritation and enhanced allergic responses (CARB 2021). Construction and operation of the project would not generate NO_x emissions that would exceed the SCAQMD mass daily thresholds; therefore, construction and operation of the project is not anticipated to contribute to exceedances of the NAAQS and CAAQS for NO_2 or contribute to associated health effects. In addition, the SCAB is designated as in attainment of the NAAQS and CAAQS for NO_2, and the existing NO_2 concentrations in the area are well below the NAAQS and CAAQS standards.

Health effects associated with CO include chest pain in patients with heart disease, headache, light-headedness, and reduced mental alertness (CARB 2021). CO tends to be a localized impact associated with congested intersections. CO hotspots were discussed previously as a less-than-significant impact. Thus, the project's CO emissions would not contribute to the health effects associated with this pollutant.

Health effects associated with PM_{10} and $PM_{2.5}$ include premature death and hospitalization, primarily for worsening of respiratory disease (CARB 2021). As with O_3 and NO_X, and as shown in Tables 3.3-3 and 3.3-4, the project would not generate emissions of PM_{10} or $PM_{2.5}$ that would exceed the SCAQMD's thresholds. Accordingly, the project's PM_{10} and $PM_{2.5}$ emissions are not expected to cause an increase in related health effects for this pollutant.

The California Supreme Court's decision in *Sierra Club v. County of Fresno* (2018) 6 Cal. 5th 502 (referred to herein as the Friant Ranch decision; issued on December 24, 2018) addressed the need to correlate mass emission values for criteria air pollutants to specific health consequences and contains the following direction from the California Supreme Court:

"The Environmental Impact Report (EIR) must provide an adequate analysis to inform the public how its bare numbers translate to create potential adverse impacts or it must explain what the

agency *does* know and why, given existing scientific constraints, it cannot translate potential health impacts further" (Italics in original).

Currently, SCAQMD, CARB, and EPA have not approved a quantitative method to reliably, meaningfully, and consistently translate the mass emission estimates for the criteria air pollutants resulting from the project to specific health effects. In addition, there are numerous scientific and technological complexities associated with correlating criteria air pollutant emissions from an individual project to specific health effects or potential additional nonattainment days.

In connection with the judicial proceedings culminating in issuance of the Friant Ranch decision, the SCAQMD and the San Joaquin Valley Air Pollution Control District (SJVAPCD) filed amicus briefs attesting to the extreme difficulty of correlating an individual project's criteria air pollutant emissions to specific health impacts. Both SJVAPCD and SCAQMD have among the most sophisticated air quality modeling and health impact evaluation capabilities of the air districts in California. The key relevant points from the SCAQMD and SJVAPCD briefs are summarized herein.

In requiring a health impact type of analysis for criteria air pollutants, it is important to understand how O_3 and particulate matter (PM) are formed, dispersed, and regulated. The formation of O_3 and PM in the atmosphere, as secondary pollutants,[16] involves complex chemical and physical interactions of multiple pollutants from natural and anthropogenic sources. The O_3 reaction is self-perpetuating (or catalytic) in the presence of sunlight because NO_2 is photochemically reformed from nitric oxide. In this way, O_3 is controlled by both NO_x and VOC emissions (NRC 2005). The complexity of these interacting cycles of pollutants means that incremental decreases in one emission may not result in proportional decreases in O_3 (NRC 2005). Although these reactions and interactions are well understood, variability in emission source operations and meteorology creates uncertainty in the modeled O_3 concentrations to which downwind populations may be exposed (NRC 2005). Once formed, O_3 can be transported long distances by wind and due to atmospheric transport, contributions of precursors from the surrounding region can also be important (EPA 2008). Because of the complexity of O_3 formation, a specific tonnage of VOCs or NO_X emitted in a particular area does not equate to a particular concentration of O_3 in that area (SJVAPCD 2015).

PM can be divided into two categories: directly emitted PM and secondary PM. Secondary PM, like O_3, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as SO_x and NO_x (SJVAPCD 2015). Because of the complexity of secondary PM formation, including the potential to be transported long distances by wind, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area (SJVAPCD 2015). This is especially true for individual projects, like the proposed project, where project-generated criteria air pollutant emissions are not derived from a single "point source," but from construction equipment and mobile sources (passenger cars and trucks) driving to, from, and around the project site.

Additionally, health effects from air pollutants are related to the concentration of the air pollutant that an individual is exposed to, not necessarily the individual mass quantity of emissions associated with an individual project. For example, health effects from O_3 are correlated with increases in the ambient level of O_3 in the air a person breathes (SCAQMD 2015). However, it takes a large amount of additional precursor

[16] Air pollutants formed through chemical reactions in the atmosphere are referred to as secondary pollutants.

emissions to cause a modeled increase in ambient O_3 levels over an entire region (SCAQMD 2015). The lack of link between the tonnage of precursor pollutants and the concentration of O_3 and $PM_{2.5}$ formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects; rather, it is the concentration of resulting O_3 that causes these effects (SJVAPCD 2015). Indeed, the ambient air quality standards, which are statutorily required to be set by EPA at levels that are requisite to protect the public health, are established as concentrations of O_3 and $PM_{2.5}$ and not as tonnages of their precursor pollutants (EPA 2018a). Because the ambient air quality standards are focused on achieving a particular concentration region-wide, the tools and plans for attaining the ambient air quality standards are regional in nature. For CEQA analyses, project-generated emissions are typically estimated in pounds per day or tons per year and compared to mass daily or annual emission thresholds. While CEQA thresholds are established at levels that the air basin can accommodate without affecting the attainment date for the ambient air quality standards, even if a project exceeds established CEQA significance thresholds, this does not mean that one can easily determine the concentration of O_3 or PM that will be created at or near the project site on a particular day or month of the year, or what specific health impacts will occur (SJVAPCD 2015).

In regard to regional concentrations and air basin attainment, the SJVAPCD emphasized that attempting to identify a change in background pollutant concentrations that can be attributed to a single project, even one as large as the entire Friant Ranch Specific Plan, is a theoretical exercise. The SJVAPCD brief noted that it "would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have" (SJVAPCD 2015). The situation is further complicated by the fact that background concentrations of regional pollutants are not uniform either temporally or geographically throughout an air basin, but are constantly fluctuating based upon meteorology and other environmental factors. SJVAPCD noted that the currently available modeling tools are equipped to model the impact of all emission sources in the San Joaquin Valley Air Basin on attainment (SJVAPCD 2015). The SJVAPCD brief then indicated that, "running the photochemical grid model used for predicting O_3 attainment with the emissions solely from the Friant Ranch project (which equate to less than 0.1% of the total NO_x and VOC in the Valley) is not likely to yield valid information given the relative scale involved" (SJVAPCD 2015).

SCAQMD and SJVAPCD have indicated that it is not feasible to quantify project-level health impacts based on existing modeling (SCAQMD 2015; SJVAPCD 2015). Even if a metric could be calculated, it would not be reliable because the models are equipped to model the impact of all emission sources in an air basin on attainment and would likely not yield valid information or a measurable increase in O_3 concentrations sufficient to accurately quantify O_3-related health impacts for an individual project.

Nonetheless, following the Supreme Court's Friant Ranch decision, some EIRs where estimated criteria air pollutant emissions exceeded applicable air district thresholds have included a quantitative analysis of potential project-generated health effects using a combination of a regional photochemical grid model[17] and the EPA Benefits Mapping and Analysis Program (BenMAP or BenMAP–Community Edition).[18] The

[17] The first step in the publicly available HIAs includes running a regional photochemical grid model, such as the Community Multiscale Air Quality model or the Comprehensive Air Quality Model with extensions to estimate the increase in concentrations of O_3 and $PM_{2.5}$ as a result of project-generated emissions of criteria and precursor pollutants. Air districts, such as the SCAQMD, use photochemical air quality models for regional air quality planning. These photochemical models are large-scale air quality models that simulate the changes of pollutant concentrations in the atmosphere using a set of mathematical equations characterizing the chemical and physical processes in the atmosphere (EPA 2017).

[18] After estimating the increase in concentrations of O_3 and $PM_{2.5}$, the second step in the five examples includes use of BenMAP or BenMAP-Community Edition to estimate the resulting associated health effects. BenMAP estimates the number of health

publicly available health impact assessments (HIAs) typically present results in terms of an increase in health incidences and/or the increase in background health incidence for various health outcomes resulting from the project's estimated increase in concentrations of O_3 and $PM_{2.5}$.[19] To date, the five publicly available HIAs reviewed herein have concluded that the evaluated project's health effects associated with the estimated project-generated increase in concentrations of O_3 and $PM_{2.5}$ represent a small increase in incidences and a very small percent of the number of background incidences, indicating that these health impacts are negligible and potentially within the models' margin of error. It is also important to note that while the results of the five available HIAs conclude that the project emissions do not result in a substantial increase in health incidences, the estimated emissions and assumed toxicity are also conservatively inputted into the HIA and thus overestimate health incidences, particularly for $PM_{2.5}$.

As explained in the SJVAPCD brief and noted previously, running the photochemical grid model used for predicting O_3 attainment with the emissions solely from an individual project like the Friant Ranch project or the proposed project is not likely to yield valid information given the relative scale involved. The five examples reviewed support the SJVAPCD's brief contention that consistent, reliable, and meaningful results may not be provided by methods applied at this time. Accordingly, additional work in the industry and more importantly, air district participation, is needed to develop a more meaningful analysis to correlate project-level mass criteria air pollutant emissions and health effects for decision makers and the public. Furthermore, at the time of writing, no HIA has concluded that health effects estimated using the photochemical grid model and BenMAP approach are substantial provided that the estimated project-generated incidences represent a very small percent of the number of background incidences, potentially within the models' margin of error.

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

In addition, an analysis of the project's potential to exceed the SCAQMD LSTs is presented above. The SCAQMD developed the LST analysis in response to CARB Governing Board's Environmental Justice Enhancement Initiative I-4. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable NAAQS or CAAQS (which are health protective standards) at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area, project size, and distance to the nearest sensitive receptor. LSTs has been developed for NO_2, CO, PM_{10}, and $PM_{2.5}$. As presented above, the project's localized construction emissions would not exceed site-specific LSTs with mitigation, and impacts would be less than significant with mitigation.

incidences resulting from changes in air pollution concentrations (EPA 2018b). The health impact function in BenMAP-Community Edition incorporates four key sources of data: (i) modeled or monitored air quality changes, (ii) population, (iii) baseline incidence rates, and (iv) an effect estimate. All of the five example HIAs focused on O_3 and $PM_{2.5}$.

19 The following CEQA documents included a quantitative HIA to address Friant Ranch: (1) California State University Dominguez Hills 2018 Campus Master Plan EIR (CSU Dominguez Hills 2019), (2) March Joint Powers Association K4 Warehouse and Cactus Channel Improvements EIR (March JPA 2019), (3) Amendment to Norman Y. Mineta San Jose Airport Amendment to the Airport Master Plan EIR (City of San Jose 2020), (4) City of Inglewood Basketball and Entertainment Center Project EIR (City of Inglewood 2019), and (5) San Diego State University Mission Valley Campus Master Plan EIR (SDSU 2019).

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 project would result in emissions, including criteria air pollutant and TACs; however, those are addressed under Sections 3.3(b) and 3.3(c). Accordingly, the evaluation of other emissions is focused on the potential for the project to generate odors. The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speed and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment, architectural coatings, and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

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). The project entails operation of a warehouse and would not create any new sources of odors during operation. Therefore, project operations would result in an odor impact that is less than significant.

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 Game or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
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 Game or U.S. Fish and Wildlife Service?	☐	☐	☐	☒

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒

The following analysis is based on a biological resources assessment conducted by Dudek biologist Rachel Swick on November 19, 2021. This assessment included a review of the latest available relevant literature, maps, soil data, data on biological baselines, special-status habitats, and species distributions to determine those resources that have the potential to occur within the project site and surrounding 100-foot buffer (study area). A field assessment was conducted to characterize the environmental conditions, vegetation communities/land covers, and any common or special-status plants or wildlife (including their habitats) that could be impacted during project implementation. During the field survey, vegetation communities and land covers were catalogued and confirmed based on existing site conditions. Vegetation communities were mapped according to the California Department of Fish and Wildlife (CDFW) *List of Vegetation Alliances and Associations* (or Natural Communities List) which is based on *A Manual of California Vegetation, Second Edition* (Sawyer et. al. 2009). Dudek compiled a general inventory of plant and wildlife species detected by sight, calls, tracks, scat, or other field indicators, and determined the potential for special-status species to occur within the study area. Additionally, Dudek conducted a preliminary investigation of the extent and distribution of jurisdictional waters of the U.S. regulated by the U.S. Army Corps of Engineers, jurisdictional waters of the state regulated by the Regional Water Quality Control Board (RWQCB), and CDFW jurisdictional streambed and associated riparian habitat.

Dudek searched the CDFW's California Natural Diversity Database (CNDDB; CDFW 2021), and the California Native Plant Society's Inventory of Rare and Endangered Plants (CNPS; CNPS 2021) to identify special-status biological resources from the region. The CNDDB and CNPS were searched based on the U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle for Redlands, where the study area is located, as well as the surrounding eight quadrangles (San Bernardino North, Harrison Mtn, Keller Peak, San Bernardino South, Yucaipa, Riverside East, Sunnymead, and El Casco). Potential and/or historic drainages and aquatic features were investigated based on a

review of USGS topographic maps (1:24,000 scale), aerial photographs, the National Wetland Inventory database (USFWS 2021), and the Natural Resource Conservation Service Web Soil Survey (USDA 2021).

The project is depicted on Section 5, Township 1 South, Range 3 West of the Redlands topographic quadrangle map. A vacant lot with ruderal weeds is adjacent to the west of the project site. The remainder of the site is surrounded by industrial and residential development to the north, east, and south. The Santa Ana River, located approximately 1 mile south of the project site, is the closest regionally significant biological resource, and is separated from the project site by the San Bernardino airport. Two soil types were mapped within the study area: Psamments, Fluvents and frequently flooded soils, and Tujunga gravelly loamy sand. However, the observed surface soils within the study area have been compacted and altered from their natural composition, and therefore no longer support natural habitats.

The vegetation and land covers within the study area are mapped as developed land with crumbling asphalt and disturbed habitat (Figure 11, Biological Resources). Disturbed habitat is dominated by non-native vegetation such as red brome (*Bromus rubens*), and redstem stork's bill (*Erodium cicutarium*) and has been heavily degraded by past ground disturbing activities. The remainder of the study area is mapped as developed lands. Developed lands within the project site are characterized by crumbling asphalt, with small patches of exposed soils and non-native plants species around the edges of the project site. Non-native species found along the edges of the project site include spotted sandmat (*Euphorbia maculata*), castor bean (*Ricinus communis*), and cheeseweed mallow (*Malva parviflora*). Other developed lands within the study area include a residential structure with ornamental plantings adjacent to the northeast corner of the project site, and roads.

The vegetation and existing conditions within the study area are typical for urbanized areas in the region. Vegetation diversity within the study area was limited due to surrounding industrial and commercial development. A total of 19 plant species (2 native and 17 non-native), were recorded within the study area (Appendix B, Biological Resources Attachments).

Wildlife species diversity during the survey was low and likely impacted by the industrial setting of the study area. Species observed include house finch (*Haemorhous mexicanus*), American crow (*Corvus brachyrhynchos*), and western fence lizard (*Sceloporus occidentalis*). These species typically occur in urban and developed areas. Other species expected to occur include mourning dove (*Zenaida macroura*), and house sparrow (*Passer domesticus*).

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 Game or U.S. Fish and Wildlife Service?

Less-Than-Significant Impact with Mitigation Incorporated. Based on the database queries of the CNDDB and CNPS, there are 89 special-status plants and 67 special-status wildlife with recorded occurrences in the Redlands 7.5-minute USGS quadrangle, and surrounding eight quadrangles. The project site occurs within an entirely disturbed and developed area and has extremely limited native vegetation. Adjacent properties, while mostly developed, include areas of disturbed non-native grassland habitat that has limited ability to potentially support special-status species. Additionally, no natural communities, soils, or hydrology occur on the project site due to previous and ongoing disturbances.

Of the 89 special-status plants, based on range, elevation, and associated vegetation and soils, only one species, smooth tarplant (*Centromadia pungens* ssp. *laevis*), has a moderate potential to occur within the study area. The remaining 88 species have either a low or no potential to occur within the study area.

Special-status plant species with at most a low potential to occur have not been evaluated further. Smooth tarplant is a CNPS rank 1B.1 species. It is generally found within valley and foothill grasslands and has even been observed in ruderal areas along dirt roads. Smooth tarplant is also commonly found on the frequently flooded, and slightly alkaline soils found within the study area. Therefore, the small patches of exposed soil within the study area have a moderate potential to support this species. If this species is found on the project site potential impacts would be considered significant. To reduce potential impacts to this species, MM-BIO-1 shall be implemented to avoid and minimize project impacts to a **less than significant level with mitigation**.

MM-BIO-1 Prior to the start of construction a focused rare plant survey shall be conducted between the months of April through September to determine the presence/absence of smooth tarplant on the project site. The survey will be conducted by knowledgeable botanists during the plant's blooming season by walking transects throughout all suitable habitat areas. Two survey passes will be required in order to survey early and late in the species blooming period. Any observations will be mapped with a GPS and flagged in the field. Every effort shall be taken to avoid impacting observed species such as establishing a buffer and conducting onsite monitoring, if needed. If the tarplant cannot be avoided a relocation plan will be prepared to relocate any observed specimens to an established conservation area and/or seed collected for propagation offsite.

Of the 67 special-status wildlife, based on range, habitat, and surrounding conditions, six of these species have a low potential to occur within the study area. However, any suitable habitat for these species is located on the adjacent property, outside of the project site boundaries, and is significantly degraded. In addition, due to the lack of native habitats and soils, surrounding development preventing species from moving to the study area from nearby populations, and lack of observations of any special-status wildlife during the assessment, none of the 67 wildlife species are expected to occur on the project site. Therefore, the project would result in **no impact** to special-status wildlife species.

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 Game or U.S. Fish and Wildlife Service?

No Impact. The study area occurs in an upland area that has been subject to previous disturbances from grading and vehicle use and storage. The project site does not contain any natural drainages or watercourses capable of supporting riparian habitat. There are no channelized drainages or tributaries within the study area. Additionally, no blue line streams are mapped on USGS topographic maps or the National Wetlands Inventory for the study area. However, immediately northwest of the study area is City Creek, a soft-bottom creek that has been channelized with levees as the surrounding area became more developed in order to prevent flooding in nearby areas. City Creek conveys flows from the San Bernardino mountains towards flood control channels to the west. These flood control channels flow into the Santa Ana River a relatively permanent water, which in turn flows directly into the Pacific Ocean, a traditional navigable water. Historically, City Creek may have periodically flooded within the boundaries of the study area, given the Psamments, Fluvents and Frequently flooded soils that are mapped in the northwestern corner of the study area. However, waters that used to flow through City Creek are now diverted through other waterways, reducing the likelihood of flood events that could potentially support riparian habitat. Lastly, due to the lack of natural vegetation communities, soils, or hydrology on the project site, no other sensitive natural community has the potential to occur within the project site. Therefore, the project will result in **no impact** to riparian habitat or any other sensitive natural communities.

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. The project site does not contain any natural or man-made drainages, waterways, or connectivity to any potentially regulated water. The study area is completely disturbed and developed with extremely limited native vegetation and heavily disturbed soils. The observed surface soils within the entire site have been compacted and altered from their natural composition, and therefore no longer support natural habitats. Additionally, no clay soils are mapped on the study area on USDA soils maps. Therefore, the study area lacks suitable hydrologic and soil conditions to support wetlands or any other jurisdictional feature. The project would have no direct impact on any state or federally regulated wetland or non-wetland waters.

However, the earthen City Creek channel is located approximately 300 feet northwest of the project site. Construction of the project may create fugitive dust that could cause an indirect impact to the adjacent channel. However, incorporation of Best Management Practices as part of the project's Stormwater Pollution Prevention Program (SWPPP) would reduce dust, toxins, and pollutants from entering into any adjacent waterways. Therefore, the project would result in a **less than significant impact** to state and federally protected waters and wetlands.

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 with Mitigation Incorporated. The project site occurs within an entirely disturbed and developed property surrounded by disturbed habitat, and industrial and commercial development. The project site does not occur within any designated wildlife corridors or habitat linkages, nor does it provide opportunities for wildlife movement through the project site to larger habitat blocks. The channelized City Creek located to the northwest of the study area provides opportunity for small to medium sized mammals to move through the area, as well as fish species when water is flowing in the channel. However, the project site does not function as a wildlife corridor or linkage. Therefore, construction of the project would not impede or restrict wildlife movement through the region and there would be **no impact**.

However, the existing developments within the project site have the potential to support nesting birds that typically occur in developed settings and urban environments. In addition, the crumbling asphalt and disturbed soils within the project site have the potential to support ground nesting birds. Project activities that commence during the avian nesting season of February through August may result in a significant direct and/or indirect impact to nesting birds. Therefore, the project shall implement Mitigation Measure MM-BIO-2 to reduce potential impacts to a **less than significant level with mitigation**.

MM-BIO-2 Project activities should avoid the avian nesting season of February through August in order to minimize any potential impact to birds and nests protected under the Migratory Bird Treaty Act and California Fish and Game Code. If project activities cannot avoid the nesting season, a pre-construction clearance survey should be conducted within 3 days prior to ground disturbing activities to determine the presence/absence of nesting birds. If an active nest is found a buffer will be established around the nest until the nestlings have fledged and the nest is no longer active. The buffer will be implemented by a qualified

biologist based on the sensitivity of the species to disturbance. Construction activities may continue outside of the buffer under the discretion of a monitoring biologist. Once the biologist has determined the nest is no longer active, the buffer can be removed, and construction may continue. Project implementation of MM-BIO-2 would result in a **less than significant impact** to nesting birds.

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 City of Highland's Municipal Code does not apply to any biological resource found within the project site. Chapter 8.36 of the City of Highland's Municipal Code covers the protection, relocation, and removal of all heritage trees on all private property within the city of Highland. Heritage trees are defined in this Chapter as any live tree, shrub or plant which meets at least one of the following criteria: all woody plants in excess of 15 feet in height and having a single trunk circumference of 24 inches or more, as measured four and one-half feet above ground level; multi-trunk trees having a total circumference of 30 inches or more, as measured four and on-half feet from ground level; a stand of trees, the nature of which makes each dependent upon the others for survival; or any other tree as may be deemed historically or culturally significant by the community development director or designee. Removal of regulated trees would require a permit from the City. However, the project site does not contain any regulated trees. Therefore, the project would result in **no impact** to local policies or ordinances.

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?***

No Impact. The project site does not occur within any habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan. Therefore, the project would result in **no impact** to any adopted or approved conservation plan.

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 Section 15064.5?	☐	☒	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

The following analysis is based, in part, on the Archaeological Resources Assessment prepared by Dudek in April 2022, included as Appendix C.

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

Less-than-Significant Impact with Mitigation Incorporated. As defined by the CEQA Guidelines (14 CCR 15000 et seq.), a "historical resource" is considered to be a resource that is listed in or eligible for listing in the National Register of Historic Places or California Register of Historical Resources (CRHR), has been identified as significant in a historical resource survey, or is listed on a local register of historical resources. Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (Public Resources Code Section 21084.1; 14 CCR 15064.5(b)). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of Public Resources Code Section 5024.1(q)), it is a historical resource and is presumed to be historically or culturally significant for the purposes of CEQA (Public Resources Code Section 21084.1; 14 CCR 15064.5(a)).

A review of historical aerial photographs indicates that the proposed project site has been subjected to consistent ground disturbance, shifting from undeveloped land with minor vegetation in the late 1930s and transforming steadily to include the development of buildings by the late 1950s. Between the 1960s and early 2010s, structures have been added and removed and trees have been removed within the proposed project. By 2012, the structures observed in earlier aerials were no longer present and the proposed project site was utilized as a storage yard, consistent with the present site conditions. A review of historical topographic maps for the years 2012 and 2018 do not depict any structures within the proposed project site. Additionally, a review of the California Historical Resources Information System (CHRIS) database records search for the proposed project site did not identify any historical resources, including both archaeological and built environment resources, within the project site. A pedestrian survey of the project site did not identify any extant structures or archaeological resources within the project footprint that are historic in age. Therefore, the project would not cause a substantial adverse change in the significance of a known historical resource pursuant to Section 15064.5. However, the potential for intact cultural deposits to exist within native soils (below between 1 and 2.5 feet below ground surface) to the depths of assumed ground disturbance is unknown. In the event that unanticipated cultural resources are encountered during project implementation, an assessment and evaluation of the resource would be conducted potentially resulting in the determination that the resource is historical in accordance with the definition outlined in Section 15064.5. As a result, the project has a potential to impact and thus cause a substantial adverse change in the significance of a yet unknown historical resource.

Thus, mitigation is required to address impacts related to the inadvertent discovery of yet unknown historical resources, as outlined in MM-CUL-1, MM-CUL-2, and MM-CUL-3. MM-CUL-1 requires that all project construction personnel participate in a Workers Environmental Awareness Program training for the proper identification and treatment of inadvertent discoveries. MM-CUL-2 requires the retention of an on-call qualified archaeologist to address inadvertent discoveries. MM-CUL-3 requires construction work occurring within 100 feet of a cultural resource discovery be immediately halted until the qualified archaeologist, meeting the Secretary of Interior's Professional Qualification Standards for Archaeology, can assess and evaluate the discovery pursuant to CEQA. Additionally, MM-CUL-3 requires the inadvertent discovery clause be included on all construction plans. With implementation of MM-CUL-1, MM-CUL-2, and MM-CUL-3, significant impacts to historical resources would be reduced to less than significant with mitigation incorporated.

MM-CUL-1 Workers Environmental Awareness Program - Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitoring staff.

MM-CUL-2 Retention of an On-Call Qualified Archaeologist – A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during project construction, monitoring may be warranted. Additionally, any identified cultural resources shall be assessed and evaluated pursuant to CEQA. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards, shall 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.

MM-CUL-3 Inadvertent Discovery Clause - In the event that potential archaeological resources (sites, features, or artifacts) are exposed during ground disturbing, all construction work occurring not less than 100 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the CEQA, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided.

In the event that human remains are inadvertently encountered during construction activities, the remains and associated resources shall be treated in accordance with state and local regulations that provide requirements with regard to the discovery of human remains, including California Health and Safety Code Section 7050.5, California Public Resources Code Section 5097.98, and CEQA Guidelines Section 15064.5(e). In accordance with these regulations, if human remains are found, the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the

Project site or any nearby (no less than 100 feet) area reasonably suspected to overlie adjacent remains can occur until the County Coroner has determined if the remains are potentially human in origin. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she is required to notify the NAHC that shall notify those persons believed to be the most likely descendant. The most likely descendant shall determine, in consultation with the property owner, the disposition of the human remains.

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

Less-than-Significant Impact with Mitigation Incorporated. A CHRIS database records search, Native American Heritage Commission (NAHC) Sacred Lands File (SLF) search, background research, including a review of a geotechnical report, and an archaeological pedestrian survey were conducted as part of an Archaeological Resources Assessment that was prepared for the project (Appendix C).

The SLF record is maintained at a Public Land Survey System Section level meaning the negative or positive result is respective of a general area covering approximately one-square mile (640 acres) rather than the exact proposed project site. Therefore, as part of the process of identifying cultural resources within or near the proposed project, Dudek referenced the results of an SLF search that was previously completed for another project within a 0.5-mile to the northwest of the present project site (completed April 14, 2021). The NAHC's SLF search result was positive, however, as previously stated, the SLF record is maintained at a Public Land Survey System Section level, which indicates a recorded sacred site could be anywhere within this one square mile (640 acre) area and therefore, does not necessarily equate to the existence of resources within the specific area occupied by the proposed project site. A review of the CHRIS records search (completed January 11, 2022) indicates that 12 cultural resource studies have been conducted within a 0.5-mile of the proposed project site between 1984 and 2014. Of these studies, one (SB-07959) overlaps approximately 30 percent of the proposed project site and one (SB-07309) is adjacent and north of the proposed project site; neither one of these studies identified archaeological resources within the current proposed project site. Moreover, the study that overlaps the proposed project site, SB-07309, focuses on historic built environment resources and as such, the potential of archaeological resources was likely not considered during the survey. This suggests that the proposed project site has not been subject to any archaeological investigations, including pedestrian surveys prior to the placement of fill soils or development of the proposed project site. South Central Coastal Information Center (SCCIC) records also indicate that 20 cultural resources, all of which are historic built environment resources, have been previously recorded within 0.5 miles of the proposed project site, none of which overlap or are adjacent to the proposed project site. No record of previously recorded historic-period or prehistoric archaeological resources are on file with the SCCIC as being present within proposed project site.

A review of a geotechnical report prepared for the proposed project site determined that fills soils were encountered from surface to between 1 and 2.5 feet below existing ground surface within all nine exploratory backhoe trenching locations. According to the geotechnical report, grading preparations for the proposed project site will include removal of all vegetation and demolition debris and disturbed/fill soils followed by scarification of the native soils underlying the fill soils to a depth of 12 inches. Other depths of proposed ground disturbance for the proposed project are unknown, however, for management and recommendation purposes, it is assumed not to exceed 5 feet below the existing ground surface for utility trenching, 2 feet within building footprints and landscaped areas and 16 feet below the existing ground surface within infiltration basin footprint in the western portion of the proposed project site. As such, due

to the presence of fill soils from surface to between 1 and 2.5 feet below existing ground surface, observation of intact native soils was not possible during the pedestrian survey, resulting in less than reliable survey results.

A review of aerial photographs for all available years indicates that in general, the proposed project site has been subjected to consistent ground disturbance, shifting from undeveloped land with minor vegetation in the late 1930s and transforming steadily to include the development of buildings by the late 1950s. By 2012, 2012, the structures observed in earlier aerials are no longer present and the proposed project site was utilized as a storage yard, consistent with the present site conditions.

An intensive-level archaeological survey of the proposed Project site was conducted November 23, 2021. Ground surface visibility within the proposed Project site was variable but poor (approximately 30%) due to surface coverage by vegetation, degraded asphalt overlying fill soils, gravel, extant dilapidated modern structures and concrete pad, including modern refuse comprised of furniture, wooden pallets, tires, trash cans and scraps of wood and metal distributed across the site. A review of a geotechnical report prepared for the proposed project site (Appendix D) stated that fill soils were encountered from between surface to 2.5 feet below existing ground surface at all nine trenching locations conducted to maximum depths explored (between 5 and 18.5 feet below existing ground surface) and placed at accessible locations throughout the proposed project site. Native soils were encountered underlying the fill soils and extend to the maximum depths reached during the geotechnical testing. The presence of fill soils demonstrates that native soils within which cultural deposits might exist in context could not have been observed during the survey; this fact demonstrates that the survey findings are less than reliable. No cultural materials were observed within the proposed project site.

In consideration of all these factors, the potential to encounter intact deposits containing archaeological resources within soils from the current grade and between 1 and 2.5 feet below ground surface is unlikely. However, the potential for intact cultural deposits to exist within native soils (below between 1 and 2.5 feet below ground surface) to the depths of assumed ground disturbance is unknown. For these reasons, the proposed project site should be treated as potentially sensitive for archaeological resources. In the event that unanticipated archaeological resources are encountered during project implementation, impacts to these resources would be potentially significant.

Thus, mitigation is required to address impacts related to the inadvertent discovery of archaeological resources during construction, as outlined in MM-CUL-1, MM-CUL-2, and MM-CUL-3. MM-CUL-1 requires that all project construction personnel participate in a Workers Environmental Awareness Program training for the proper identification and treatment of inadvertent discoveries. MM-CUL-2 requires the retention of an on-call qualified archaeologist to address inadvertent discoveries. MM-CUL-3 requires construction work occurring within 100 feet of a cultural resource discovery be immediately halted until the qualified archaeologist, meeting the Secretary of Interior's Professional Qualification Standards for Archaeology, can assess and evaluate the discovery pursuant to CEQA. Additionally, MM-CUL-3 requires the inadvertent discovery clause be included on all construction plans. With implementation of MM-CUL-1, MM-CUL-2, and MM-CUL-3, potentially significant impacts to unknown archaeological resources would be reduced to less than significant with mitigation incorporated.

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

Less-than-Significant Impact. No prehistoric or historic period burials were identified within the proposed project site as a result of the CHRIS records search or pedestrian survey. Although the NAHC's SLF search result was positive, it is important to note that the results of the SLF provided by the NAHC relate to the general regional area within and surrounding the proposed project site and don't necessarily equate to the existence of resources or human remains within the specific proposed project site. In the event that human remains are inadvertently encountered during ground disturbing activities, they shall be treated consistent with state and local regulations including California Health and Safety Code Section 7050.5, California Public Resources Code Section 5097.98, and the California Code of Regulations Section 15064.5(e). In accordance with these regulations, if human remains are found, the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the Project site or any nearby (no less than 100 feet) area reasonably suspected to overlie adjacent remains can occur until the County Coroner has determined if the remains are potentially human in origin. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she is required to notify the NAHC that shall notify those persons believed to be the most likely descendant. The most likely descendant shall determine, in consultation with the property owner, the disposition of the human remains. Compliance with these regulations would ensure that impacts to human remains resulting from the proposed project would be less than significant.

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?	☐	☐	☒	☐

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 electricity and natural gas used for construction of the proposed project would be temporary, would be substantially less than that required for project operation, and would have a negligible contribution to the project's overall energy consumption. Although the project would see an increase in petroleum use during construction and operation, vehicles would use less petroleum due to advances in fuel economy and potential reduction in vehicle miles traveled (VMT) over time.

Construction

Electricity

Temporary electric power for as-necessary lighting and electronic equipment (such as computers inside temporary construction trailers) would be provided by Southern California Edison. The electricity used for such activities would be temporary, would be substantially less than that required for project operation, and would have a negligible contribution to the project's overall energy consumption.

Natural Gas

Natural gas is not anticipated to be required during construction of the 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 be substantially less than that required for project operation and would have a negligible contribution to the project's overall energy consumption.

Petroleum

Heavy-duty construction equipment associated with construction activities would rely on diesel fuel. Construction workers would travel to and from the 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 passenger vehicles.

Heavy-duty construction equipment of various types would be used during each phase of 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. Construction is estimated to occur in 2022 based on the construction phasing schedule. 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 2021). The estimated diesel fuel usage from construction equipment is shown in Table 3.6-1.

Table 3.6-1. Construction Equipment Diesel Demand

Phase	Pieces of Equipment	Equipment CO_2 (MT)	kg/CO_2/Gallon	Gallons
Demolition	6	33.99	10.21	3,329.11
Site Preparation	7	8.36	10.21	818.80
Grading	6	10.42	10.21	1,020.75
Building Construction	9	185.40	10.21	18,158.30
Paving	9	14.74	10.21	1,443.75
Architectural Coating	1	2.30	10.21	225.06
			Total	24,995.77

Sources: Pieces of equipment and equipment CO_2 (Appendix A-1); kg/CO_2/Gallon (The Climate Registry 2021).
Notes: CO_2 = carbon dioxide; MT = metric ton; kg = kilogram.

Fuel consumption from worker and vendor trips is estimated by converting the total CO_2 emissions from each construction phase to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. Worker vehicles are assumed to be gasoline and vendor vehicles are assumed to be diesel. The project also includes haul truck trips for the export of demolition waste and import of earthwork materials. Calculations for total worker, vendor truck and haul truck fuel consumption are provided in Table 3.6-2.

Table 3.6-2. Construction Worker and Vendor Gasoline and Diesel Demand

Phase	Trips	Vehicle MT CO_2	kg/CO_2/Gallon	Gallons
Worker (Gasoline)				
Demolition	320	1.42	8.78	161.66
Site Preparation	90	0.40	8.78	45.47
Grading	128	0.57	8.78	64.66
Building Construction	8,960	39.42	8.78	4,490.05
Paving	360	1.55	8.78	176.03
Architectural Coating	216	0.93	8.78	105.62
Vendor (Diesel)				
Demolition	80	0.75	10.21	73.11
Site Preparation	20	0.19	10.21	18.28
Grading	32	0.30	10.21	29.25
Building Construction	3,520	32.46	10.21	3,179.69
Paving	72	0.64	10.21	62.75
Architectural Coating	72	0.64	10.21	62.75
Haul (Diesel)				
Demolition	234	7.05	10.21	690.22
Site Preparation	0	0.00	10.21	0.00
Grading	24	0.72	10.21	70.79
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	**9,230.31**

Sources: Trips and vehicle CO2 (Appendix A-1); kg/CO2/Gallon (The Climate Registry 2021).
Notes: MT = metric ton; CO2 = carbon dioxide; kg = kilogram.

In summary, construction of the project is anticipated to consume 5,043 gallons of gasoline and 29,183 gallons of diesel over the course of 11 months. The project will be subject to CARB's In-Use Off-Road Diesel Vehicle Regulation that applies to certain off-road diesel engines, vehicles, or equipment greater than 25 horsepower. The regulation (1) imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles; (2) requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System) and labeled; (3) restricts the adding of older vehicles into fleets starting on January 1, 2014; and (4) requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (i.e., exhaust retrofits). The fleet must either show that its fleet average index was less than or equal to the calculated fleet average target rate, or that the fleet has met the Best Achievable Control Technology requirements. The project is also located

in an urban area and worker, vendor, and haul truck trip lengths would be shorter compared to a suburban project location, resulting in less energy use. Therefore, impacts to energy resources during construction would be less than significant.

Operation

Electricity

The operation of the project would require electricity for multiple purposes, including cooling, lighting, appliances, and powering various equipment, such as electric forklifts. Additionally, the supply, conveyance, treatment, and distribution of water would indirectly result in electricity usage. Electricity consumption associated with project operation is based on the CalEEMod outputs and spreadsheet calculations for water, wastewater, and electric forklifts presented in Appendix A-1.

CalEEMod default values for energy consumption for each land use were applied for the project analysis. The energy use from non-residential land uses is calculated in CalEEMod based on the California Commercial End-Use Survey database. Energy use in buildings (both natural gas and electricity) is divided by the program into end use categories subject to Title 24 requirements (end uses associated with the building envelope, such as the heating, ventilation, and air conditioning [HVAC] system; water heating system; and integrated lighting) and those not subject to Title 24 requirements (such as appliances, electronics, and miscellaneous “plug-in” uses).

Title 24 of the California Code of Regulations serves to enhance and regulate California’s building standards. The most recent amendments to Title 24, Part 6, referred to as the 2019 standards, became effective on January 1, 2020. According to these estimations, the project would consume approximately 346,618 kilowatt-hours per year during operation (Appendix A-1).

Natural Gas

The operation would require natural gas for various purposes, including water heating and natural gas appliances and natural gas forklifts. Natural gas consumption associated with operation is based on the CalEEMod outputs in Appendix A-1.

CalEEMod default values for energy consumption for each land use were applied for the project analysis. The energy use from non-residential land uses is calculated in CalEEMod based on the California Commercial End-Use Survey database. Energy use in buildings (both natural gas and electricity) is divided by the program into end use categories subject to Title 24 requirements (end uses associated with the building envelope, such as the HVAC system, water heating system, and integrated lighting) and those not subject to Title 24 requirements (such as appliances, electronics, and miscellaneous “plug-in” uses).

Title 24 of the California Code of Regulations serves to enhance and regulate California’s building standards. The most recent amendments to Title 24, Part 6, referred to as the 2019 standards, became effective on January 1, 2020. According to these estimations, the project would consume approximately 2,192,294 thousand British thermal units per year.

Petroleum

During operations, the majority of fuel consumption resulting from the project would involve the use of forklifts and motor vehicles traveling to and from the project site.

Petroleum fuel consumption associated with motor vehicles traveling to and from the project site is a function of the VMT as a result of project operation. As shown in Appendix A-1 and as discussed in Section 3.3 and Section 3.8, the annual VMT attributable to the project is expected to be 394,494 miles for passenger vehicles and 353,036 miles for trucks. Similar to the construction worker and vendor trips, fuel consumption from worker and truck trips are estimated by converting the total CO_2 emissions from operation of the project to gallons using the conversion factors for CO_2 to gallons of gasoline or diesel. Mobile source emissions were estimated using EMFAC2017. Calculations for annual mobile source fuel consumption are provided in Table 3.6-3.

Table 3.6-3. Operational Annual Mobile Source Petroleum Demand

Fuel	Source	Vehicle MT CO_2	kg/CO_2/Gallon	Gallons
Gasoline	Vehicles	117.60	8.78	13,393.82
Diesel	Vehicles	424.34	10.21	41,560.86
			Total	**54,954.68**

Sources: Trips and vehicle CO_2 (Appendix A-1); kg/CO_2/Gallon (The Climate Registry 2021).
Notes: MT = metric ton; CO_2 = carbon dioxide; kg = kilogram

As shown in Table 3.6-3, total petroleum consumption for the project annually is estimated to be 54,955 gallons.[20]

Summary

In summary, although natural gas and electricity usage would increase due to the implementation of the project, the project would be subject to the State Building Energy Efficiency Standards. Although the project would see an increase in petroleum use during construction and operation, vehicles would use less petroleum due to advances in fuel economy and potential reduction in VMT over time. Therefore, impacts to energy resources during operation would be less than significant.

Over the lifetime of the project, the fuel efficiency of the vehicles being used by the visitors and employees of the project is expected to increase. As such, the amount of gasoline consumed as a result of vehicular trips to and from the project site during operation would decrease over time. There are numerous regulations in place that require and encourage increased fuel efficiency. For example, CARB has adopted a new approach to passenger vehicles by combining the control of smog-causing pollutants and GHG emissions into a single coordinated package of standards. The new approach also includes efforts to support and accelerate the number of plug-in hybrids and zero-emission vehicles in California (CARB 2017a). Additionally, in response to Senate Bill (SB) 375, CARB has adopted the goal of reducing per-capita GHG emissions from 2005 levels by 8% by the year 2020 and 13% by the year 2035 for light-duty passenger vehicles in the SCAG planning area. This reduction would occur by reducing VMT through the integration of

[20] For context, California as a whole is expected to consume approximately 18.0 billion gallons of petroleum per year by 2023 (CARB 2021). Countywide total petroleum use by vehicles is expected to be 123.71 million gallons per year by 2023 (CARB 2021).

land use planning and transportation. As such, operation of the project is expected to use decreasing amounts of petroleum over time, due to advances in fuel economy.

The project would create additional electricity and natural gas demand by adding warehouse facilities. New facilities associated with the proposed project would be subject to the State Building Energy Efficiency Standards, embodied in Title 24 of the California Code of Regulations. The efficiency standards apply to new construction of non-residential buildings and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting.

In summary, implementation of the project would increase the demand for electricity and natural gas at the project site and petroleum consumption in the region during construction and operation. However, as the project would be consistent with current regulations and policies, the project would not be wasteful, inefficient, and would not result in unnecessary energy resource consumption. The project's energy consumption demands during construction and operation would conform to the State's Title 24 standards such that the project would not be expected to wastefully use gas and electricity. Since the proposed project would comply with Title 24 conservation standards, the proposed project would not directly require the construction of new energy generation or supply facilities or result in wasteful, inefficient, or unnecessary consumption of energy. Moreover, vehicle usage associated with the project would use less petroleum due to advances in fuel economy and potential reduction in VMT over time. Therefore, impacts would be less than significant.

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

Less-than-Significant Impact. The project would be subject to and would comply with, at a minimum, the California Building Energy Efficiency Standards (24 CCR, Part 6). Part 6 of Title 24 establishes energy efficiency standards for non-residential buildings constructed in California to reduce energy demand and consumption. As such, the project would comply with the California code requirements for energy efficiency.

Part 11 of Title 24 sets forth voluntary and mandatory energy measures that are applicable to the project under the California Green Building Standards, also known as CALGreen. CALGreen institutes mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential, high-rise residential, state-owned buildings, schools, and hospitals, as well as certain residential and non-residential additions and alterations. On this basis, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Therefore, 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:				

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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.	☐	☐	☐	☒
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?	☐	☒	☐	☐

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 Alquist-Priolo Zones Special Studies Act defines active faults as those that have experienced surface displacement or movement during the last 11,000 years. As shown in Figure 6-2 of the General Plan, the City of Highland is traversed by the San Andreas Fault System (City of Highland 2006). The Alquist-Priolo Earthquake Fault Zone, as identified in the General Plan, is located 2.5 miles east of the project site (City of Highland 2006). The proposed development lies outside of any Alquist Priolo Special

Studies Zone and the potential for damage due to direct fault rupture is considered unlikely (Appendix D, Geotechnical Investigation). Additionally, based on a review of the California Department of Conservation (CDOC) regulatory maps, the project site is not located in a designated Fault Hazard Zone (CDOC 2021). Therefore, no impacts associated with fault rupture would occur.

ii) Strong seismic ground shaking?

Less-than-Significant Impact. Similar to other areas located in the seismically active Southern California region, the City is susceptible to strong ground shaking during an earthquake. However, as previously addressed in Section 3.7(a)(i), the project site is located approximately 2.5 miles east of the San Andreas Fault Zone which is capable of producing an 8.3 magnitude earthquake (City of Highland 2006). Pursuant to Title 15, Buildings and Construction, of the Highland Municipal Code, the project would incorporate the design recommendations included in its geotechnical report, which will be subject to review and approval by City staff prior to issuance of a grading permit. The project's geotechnical report provides specific design recommendations to ensure the structural integrity of the project in the event that seismic ground shaking is experienced at the project site. These recommendations include performing remedial grading, over-excavating existing soils, and recompacting these soils with structured fill, among other technical design recommendations (Appendix D). Additionally, the project's structures would be designed consistent with the most recent version of the California Building Code, which includes universal standards relating to seismic load requirements. With implementation of the recommendations of the project's geotechnical report, impacts associated with strong seismic ground shaking would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less-than-Significant Impact. Liquefaction occurs when partially saturated soil loses its effective stress and enters a liquid state, which can result in the soil's inability to support structures above. Liquefaction can be induced by ground-shaking events and is dependent on soil saturation conditions. As shown in Figure 6-3 of the General Plan, the project site is not within a High Liquefaction Susceptibility Area (City of Highland 2006), and according to the project's Geotechnical Report, liquefaction is not a concern for the project site (Appendix D). Therefore, impacts associated with seismic-related ground failure, including liquefaction, would be less than significant.

iv) Landslides?

No Impact. The project site is relatively flat and is not within an area susceptible to landslides as shown in General Plan Figure 6-3 (City of Highland 2006). Therefore, no impact associated with landslides would occur on the proposed project site.

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

Short-Term Construction Impacts

Less-than-Significant Impact. Ground surfaces that would be temporarily exposed during construction could result in erosion or loss of soil during storm events. Construction projects that involve the disturbance of 1 or more acres of soil, including clearing, grading, and disturbances to the ground such as stockpiling or excavation, are required to obtain coverage under the State Water Resources Control Board General Permit for Discharges of Stormwater Associated with Construction Activity (Construction General Permit).

The Construction General Permit requires the development and implementation of a SWPP (SWRCB 2021a). Implementation of a Construction General Permit, including preparation of a SWPPP and installation of best management practices (BMPs), would reduce the potential for both stormwater runoff and soil erosion impacts. Therefore, short-term construction impacts associated with soil erosion would be less than significant.

Long-Term Operational Impacts

Less-than-Significant Impact. Following construction of the project, ground surfaces would be covered by the proposed warehouse building or otherwise stabilized with landscaping and paving. The stormwater generated on site, along with any sediments contained within the stormwater, will be directed into an on-site corrugated metal pipe infiltration system to be treated on site. Therefore, the potential for substantial soil erosion or the loss of topsoil is considered 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. As previously discussed, the potential for the project to result in or be affected by landslides and liquefaction is low, and these issues are not anticipated at the project site. The project would be designed consistent with the specific design recommendations of the project's geotechnical report, which provides recommendations to perform remedial grading, over-excavate existing soils, and recompact these soils with structured fill, among other technical design recommendations (Appendix D). Implementation of these recommendations would address these potentially hazardous conditions and ensure structural integrity in the event that seismic-related issues are experienced at the project site. With implementation of the recommendations of the project's geotechnical report, 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. Expansive soils are characterized by their potential shrink/swell behavior. Shrink/swell is the change in volume (expansion and contraction) that occurs in certain fine-grained clay sediments from the cycle of wetting and drying. Much of the damage to building foundations, roads, and other structures can be caused by the swelling and shrinking of soils as a result of wetting and drying. The upper soils at the project site are very low (Expansion Index=0-20) in expansion potential (Appendix D). Further, compliance with California Building Code requirements would reduce the potential risk to people and structures due to unstable and expansive soils. Therefore, impacts associated with 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?

Less-Than-Significant Impact. The proposed project would include construction of a septic system. Therefore, no impacts associated with the ability of soils to support septic tanks would occur. Compliance with the IBC would ensure adequate support of the proposed septic system. Compliance would include, among other things, siting septic tanks on soils that are permeable enough to accept the liquid, yet fine

enough to filter out the remaining bacteria before the water returns to the aquifer, and avoiding areas with high groundwater levels.

Prior to siting of the proposed septic tank, the site-specific geotechnical investigation would be updated to include a soil percolation test for the proposed septic tank to ensure compliance with all applicable regulations governing the placement of the septic system. Therefore, for the reasons stated above, and through compliance with applicable regulations, impacts to soils from septic system components as a result of implementation of the project would be less than significant.

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 geologic units underlying the project site as primarily fill soils encountered at the ground surface. The fill soils generally consist of silty sand with gravel and occasional asphalt pieces. Native soils generally consisting of slightly silty sand with cobbles and occasional boulders were encountered beneath the upper fill soils (Appendix D). As is the case with most development projects that involve earthwork activity, there is always a possibility that subsurface construction activity could unearth a potentially significant paleontological resource. MM-GEO-1 would be required to ensure that subsurface construction activity complies with the standard procedures for treatment of unanticipated discovered of paleontological resources; therefore, with incorporation of mitigation, impacts associated with paleontological resources would be less than significant.

MM-GEO-1 Discovery of Paleontological Resources. In the event that paleontological resources (i.e., fossil remains) are exposed during construction activities for the project, all construction work occurring within 50 feet of the find shall immediately stop until a qualitied paleontologist, as defined by the Society of Vertebrate Paleontology's guidelines, can assess the nature and importance of the find. Depending on the significance of the find, the qualified paleontologist may record the find and allow work to continue or may recommend salvage and recovery of the resource. All recommendations shall be made in accordance with the Society of Vertebrate Paleontology's guidelines and shall be subject to review and approval by the City of Highland. Work in the area of the find may only resume upon approval of a qualified paleontologist.

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?	☐	☐	☒	☐

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

Less-than-Significant Impact. Climate change refers to any significant change in measures of climate (e.g., temperature, precipitation, or wind patterns) lasting for an extended period of time (i.e., decades or longer). The Earth's temperature depends on the balance between energy entering and leaving the planet's system, and many factors (natural and human) can cause changes in Earth's energy balance. The greenhouse effect is the trapping and buildup of heat in the atmosphere near the Earth's surface (the troposphere). 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 GHGs 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).

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. 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, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride (see also CEQA Guidelines Section 15364.5).[21] The three GHGs evaluated herein are CO_2, CH_4, and N_2O because these gases would be emitted during project construction and operation.

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). Consistent with CalEEMod Version 2020.4.0, this GHG emissions analysis assumed the GWP for CH_4 is 25 (i.e., emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

As discussed in Section 3.3, the project is located within SCAQMD jurisdictional boundaries. In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document—Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b). This document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (SCAQMD 2008b). The 10,000 MT CO_2e per-year threshold, which was derived from GHG reduction targets established

[21] Climate-forcing substances include greenhouse gases (GHGs) and other substances such as black carbon and aerosols. This discussion focuses on the seven GHGs identified in the California Health and Safety Code Section 38505; impacts associated with other climate-forcing substances are not evaluated herein.

in Executive Order S-3-05, was based on the conclusion that the threshold was consistent with achieving an emissions capture rate of 90% of all new or modified stationary source projects.

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land-use development projects. The most recent proposal issued by SCAQMD, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

Tier 1. Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

Tier 2. Consider whether or not the project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

Tier 3. Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO_2e per-year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

Construction Greenhouse Gas Emissions

Construction of the project would result in GHG emissions, which are primarily associated with the use of off-road construction equipment, on-road haul and vendor trucks, and worker vehicles. The SCAQMD Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008b) recommends that "construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies." Thus, the total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions for comparison with the GHG significance threshold of 3,000 MT CO_2e per year. The determination of significance, therefore, is addressed in the operational emissions discussion following the estimated construction emissions.

CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 3.3. Construction of the project is anticipated to commence in June 2022, lasting a total of 11 months and reaching completion in April 2023. On-site sources of GHG emissions include off-road equipment and off-site sources include haul trucks, vendor trucks, and worker vehicles. Table 3.8-1 presents construction GHG emissions for the project from on-site and off-site emission sources.

Table 3.8-1. Estimated Annual Construction Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2022	257.64	0.05	0.01	260.66
2023	84.60	0.02	0.00	85.50
			Total	346.16
			Amortized Emissions (over 30 years)	11.54

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 3.8-1, the estimated total GHG emissions during construction of the project would be approximately 346 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 12 MT CO_2e per year. As with project-generated construction air quality pollutant emissions, GHG emissions generated during construction of the 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. Because there is no separate GHG threshold for construction, the evaluation of significance is discussed in the operational emissions analysis in the following text.

Operational Greenhouse Gas Emissions

CalEEMod Version 2020.4.0 was used to estimate potential project-generated operational GHG emissions from area sources (landscape maintenance), natural gas combustion, electrical generation, water supply and wastewater treatment, solid waste, and off-road equipment (forklifts). As with the air quality analysis, mobile source GHG emissions were estimated using CalEEMod based on EMFAC2017 emission factors. Emissions from each category—area sources, energy sources, mobile sources, solid waste, water supply and wastewater treatment, and off-road equipment—are discussed in 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. Operational year 2023 was assumed to be the first full year of operation following completion of construction.

Area Sources

CalEEMod was used to estimate GHG emissions from the project's area sources, including operation of gasoline-powered landscape maintenance equipment, which produce minimal GHG emissions. It was assumed that 100% of the landscaping equipment would be gasoline powered. Consumer product use and architectural coatings result in VOC emissions, which are analyzed in air quality analysis only, and low to no GHG emissions.

Energy Sources

The estimation of operational energy emissions was based on CalEEMod land use defaults and square footage of the project's land uses. For non-residential buildings, CalEEMod energy intensity value (electricity or natural gas usage per square foot per year) assumptions were based on the California Commercial End-Use Survey database. Emissions are calculated by multiplying the energy use by the utility carbon intensity (pounds of GHGs per kilowatt-hour for electricity or 1,000 British thermal units for natural gas) for CO_2 and other GHGs.

The current Title 24, Part 6 standards, referred to as the 2019 Title 24 Building Energy Efficiency Standards, became effective on January 1, 2020. The current version of CalEEMod assumes compliance with the 2019 Title 24 Building Energy Efficiency Standards (CAPCOA 2021).

The CalEEMod default energy intensity factor (CO_2, CH_4, and N_2O mass emissions per kilowatt-hour) for Southern California Edison is based on the value for Southern California Edison's energy mix in 2020 reported in 2021. The Southern California Edison energy use intensity factor was adjusted consistent with SCE's 2020 Corporate Sustainability Report, which reported that 34.2% of the power mix was generated by eligible renewable sources in 2020 (SCE 2021). SB X1 2 established a target of 33% from renewable energy sources for all electricity providers in California by December 31, 2020, and SB 100 calls for further development of renewable energy, with a target of 44% by December 31, 2024; 52% by December 31, 2027; and 60% by December 31, 2030. As such, GHG emissions associated with project electricity demand would continue to decrease over time.

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. It was assumed that the warehouse would operate 7 days per week; therefore, 365 days of vehicle emissions were assumed. 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 noncommercial 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 to the extent it was captured in the EMFAC2017 emission factors for motor vehicles in 2023.

The Advanced Clean Trucks Regulation was approved by CARB in 2020. The purpose of the Advanced Clean Trucks Regulation is to accelerate the market for zero-emission vehicles in the medium- and heavy-duty truck sector and to reduce air pollutant emissions generated from on-road mobile sources (CARB 2020). The regulation has two components including a (1) manufacturer sales requirement and (2) a reporting requirement:

1. Zero-emission truck sales: Manufacturers who certify Class 2b-8 chassis or complete vehicles with combustion engines will be required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales would need to be 55% of Class 2b – 3 truck sales, 75% of Class 4 – 8 straight truck sales, and 40% of truck tractor sales.
2. Company and fleet reporting: Large employers including retailers, manufacturers, brokers and others will be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, will be required to report about their existing fleet operations. This information will help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

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.

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.

Off-Road Equipment

The SCAQMD published a summary of operational survey results from 34 operating high-cube warehouses (SCAQMD 2014). The SCAQMD survey reported an average of 0.12 forklifts/pallet jacks per 1,000 square feet of building area, which was applied to the project. Note that this estimate is for total forklifts and pallet jacks. Pallet jacks are small as they are primarily used to lift small loads in tight quarters (and are electric or manual); therefore, assuming all pieces of equipment are forklifts is conservative. For the project, a total of 35 forklifts were assumed. Of the total 7 forklifts, 2 of the forklifts were modeled as natural gas powered in accordance with mitigation measure **MM-AQ-2**. The remaining 5 forklifts are assumed to be electric-operated. All 7 forklifts are assumed to operate 8 hours per day and 7 days per week at the project site. CalEEMod was used to estimate emissions from diesel powered forklifts while spreadsheet model was used to estimate the energy consumption and GHG emissions from the electric forklifts, see Appendix A-1.

The estimated operational (year 2023) project-generated GHG emissions from area sources, energy usage, motor vehicles, solid waste generation, water usage and wastewater generation, and off-road equipment are shown in Table 3.8-2.

Table 3.8-2. Estimated Annual Operational Greenhouse Gas Emissions

Emission Source	CO_2	CH_4	N_2O	CO_2e
	metric tons per year			
Area	<0.01	<0.01	0.00	<0.01
Energy	29.77	<0.01	<0.01	29.93
Mobile	541.93	0.02	0.06	561.80
Solid waste	10.38	0.61	0.00	25.71
Water supply and wastewater	30.56	2.86	0.01	104.92
Off-road equipment (Diesel Forklifts)	110.53	0.04	0.00	111.42
Off-road equipment (Electric Forklifts)	6.97	<0.01	<0.01	7.01
			Project Total	**840.79**
			Amortized Construction Emissions	*11.54*
			Operation + Amortized Construction Total	**852.33**

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 3.8-2, estimated annual generated GHG emissions would be approximately 841 MT CO_2e per year as a result of project operation. Estimated annual project-generated operational emissions in 2023 and amortized project construction emissions of approximately 12 MT CO_2e per year would be approximately 852 MT CO_2e per year. Annual operational GHG emissions with amortized construction emissions would not exceed the SCAQMD recommended threshold of 3,000 MT CO_2e per year.

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 Impact. The project would result in less-than-significant impacts related to conflicts with GHG emission reduction plans, for the reasons described as follows.

Potential to Conflict with the San Bernardino County Regional GHG Reduction Plan

The San Bernardino Council of Governments (SBCOG) adopted a Regional GHG Reduction Plan in March 2021 (SBCOG 2021). The GHG Reduction Plan compiled an inventory of GHG emissions and developed reduction measures that could be adopted by the 21 Partnership cities of San Bernardino County. The regional GHG Reduction Plan serves as the basis for cities in the County to develop a more detailed community or local level climate action plan. As discussed in the GHG Reduction Plan, The City of Highland selected a goal to reduce its community GHG emissions to a level that is 40% below its 2016 emissions by 2030. The City will meet and exceed this goal subject to reduction measures that are technologically feasible and cost-effective through a combination of state (approximately 70%) and local (approximately 30%) efforts. The Pavley vehicle standards, the state's low carbon fuel standard, the renewable portfolio standard, and other state measures will reduce GHG emissions in Highland's on-road, solid waste, and building energy sectors in 2030. However, the City of Highland has not adopted a local climate action plan. Nonetheless, the project would comply with or not prevent the City from pursuing the relevant GHG reduction measures and regulations outlined in the Regional GHG reduction Plan, including compliance with applicable Title 24 building standards, and compliance with the City's off-road equipment idling ordinance. The Regional GHG Reduction Plan is not a qualified GHG reduction plan under CEQA Guidelines Section 15183.5. Therefore, this discussion is for informational purposes only and is not determinative of significance

Potential to Conflict with the CARB Scoping Plan

The Climate Change Scoping Plan, approved by CARB in 2008 and updated in 2014 and 2017, 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, and it is not intended to be used for project-level evaluations.[22] Under the Scoping Plan, however, several state regulatory measures aim to identify and reduce GHG emissions. CARB and other state agencies have adopted many of the measures identified in the Scoping Plan. Most of these measures

[22] 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).

focus on area-source emissions (e.g., energy usage and high-GWP GHGs in consumer products) and changes to the vehicle fleet (e.g., hybrid, electric, and more fuel-efficient vehicles) and associated fuels, among others. Nonetheless, the project would comply with various GHG emission reduction regulations to the extent they apply to the project's emissions sources including CARB's tractor-trailer GHG regulations and Heavy-Duty Greenhouse Gas Standards for New Vehicle and Engines.

Potential to Conflict with the Southern California Association of Governments 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy

The SCAG 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (Connect SoCal) is a regional growth management strategy that targets per capita GHG reduction from passenger vehicles and light trucks in the Southern California Region pursuant to SB 375. In addition to demonstrating the Region's ability to attain the GHG emission-reduction targets set forth by CARB, the 2020-2045 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 2020-2045 RTP/SCS would result in more complete communities with various transportation and housing choices while reducing automobile use.

The following strategies are intended to be supportive of implementing the 2020-2045 RTP/SCS and reducing GHGs: focus growth near destinations and mobility options; promote diverse housing choices; leverage technology innovations; support implementation of sustainability policies; and promote a green region (SCAG 2020). The strategies that pertain to residential development and SCAG's support of local jurisdiction sustainability efforts would not apply to the project. The project's potential to conflict with the remaining applicable strategies is presented in the following text.

Focus Growth Near Destinations and Mobility Options. One of the strategies within the 2020–2045 RTP/SCS's focuses on growth near existing transit and implementation of first/last mile strategies. The project would not conflict with this strategy of the 2020–2045 RTP/SCS as the project is located within 4.4 miles to the San Bernardino Transit Center. Omnitrans provides public transportation throughout the San Bernardino Valley and would serve as the nearest transit service to the project site. The nearest Omnitrans bus stop serves Route 15, located approximately 0.1 miles north of the project site at the intersection of Central/5th Street. Route 15 operates between the Fontana Metrolink Transit Center and the City of Redlands via the Cities of Rialto, San Bernardino, and Highland, with a peak service frequency of 60 minutes throughout the week

Leverage Technology Innovations. One of the technology innovations identified in the 2020–2045 RTP/SCS that would apply to the project is the promotion and support of low emission technologies for transportation, such as alternative fueled vehicles to reduce per capita GHG emissions. The project would not conflict with SCAG's ability to implement this strategy.

Promote a Green Region. The third applicable strategy within the 2020–2045 RTP/SCS, for individual developments, such as the project, involves promoting a green region through efforts such as supporting local policies for renewable energy production and promoting more resource efficient development (e.g., reducing energy consumption) to reduce GHG emissions. The project would support this measure by complying with the 2019 title 24 building standards.

Based on the analysis above, the project would be consistent with the SCAG 2020–2045 RTP/SCS.

Potential to Conflict with Senate Bill 32 and Executive Order S-3-05

Regarding consistency with SB 32 (goal of reducing GHG emissions to 40% below 1990 levels by 2030) and Executive Order S-3-05 (goal of reducing GHG emissions to 80% below 1990 levels by 2050), there are no established protocols or thresholds of significance for that future-year analysis. However, CARB has expressed optimism about both the 2030 and 2050 goals. It states in the First Update to the Climate Change Scoping Plan: Building on the Framework 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). Regarding the 2050 target for reducing GHG emissions to 80% below 1990 levels, CARB (2014) states the following:

> This level of reduction is achievable in California. In fact, if California realizes the expected benefits of existing policy goals (such as 12,000 megawatts of renewable distributed generation by 2020, net zero energy homes after 2020, existing building retrofits under Assembly Bill 758, and others) it could reduce emissions by 2030 to levels squarely in line with those needed in the developed world and to stay on track to reduce emissions to 80% below 1990 levels by 2050. Additional measures, including locally-driven measures and those necessary to meet federal air quality standards in 2032, could lead to even greater emission reductions.

In other words, 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 Executive Order S-3-05. This is confirmed in the 2017 Climate Change Scoping Plan Update, which states (CARB 2017b):

> The Scoping Plan builds upon the successful framework established by the Initial Scoping Plan and First Update, while identifying new, technologically feasible 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.

In addition, the specific path to compliance for the state in regard to the long-term, future goals will likely require development of new technology or other changes that are not currently known or available. As such, identifying ways that the project would be consistent with future goals would be speculative and cannot be meaningfully discussed at this time. However, the proposed project's consistency with current goals, policies, and regulations would assist in meeting the City's contribution to GHG emission reduction targets in California. With respect to future GHG targets under SB 32 and Executive Order 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 percent reduction target by 2030 and the Executive Order S-3-05 80 percent 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 project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. This impact would be less than significant, and no mitigation is required.

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?	☐	☐	☐	☒

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

Short-Term Construction Impacts

Less-Than-Significant Impact. In September 2021, a Phase I Environmental Site Assessment and Phase II Limited Soil Investigation (Appendix E) was prepared by Hazard Management Consulting Inc. to

characterize the potential hazards associated with the historical and current uses of the project site and surrounding areas. Historical uses of the project site included agricultural land, residential land, automobile and parts sales, and vacant land from as early as 1930. Additional residential structures were developed at the project site over the years. The site appeared to be occupied by various individuals and some of them may have operated businesses from their homes. The project site was first seen with vehicle storage in 1985. The site remained in residential and storage uses until the residential portions of the site were first seen as vacant land again in 2012. Currently, the site is being used as a semi-truck and trailer staging lot.

Based on the results of the research, available data, and a site survey, the Phase I ESA (Appendix E) identified grease and oil superficial staining and crushed asphalt/paving fabric that may contain asbestos. Demolition of the crushed asphalt/paving fabric can cause encapsulated asbestos-containing materials (ACM) (if present) to become friable and, once airborne, would be considered a carcinogen. A carcinogen is a substance that causes cancer or helps cancer grow. Such releases could pose significant risks to persons living and working in and around the project area, as well as to project construction workers. Due to this likelihood of ACMs being present on the site, a pre-demolition ACM survey should be conducted prior to any disturbance of suspected ACMs.

Abatement of all ACM encountered during any future building demolition activities would be required to be conducted in accordance with all applicable laws and regulations, including those of the EPA (which regulates disposal), Occupational Safety and Health Administration (OSHA), U.S. Department of Housing and Urban Development, Cal/OSHA (which regulates employee exposure), and SCAQMD.

For example, the EPA requires that all asbestos work performed within regulated areas be supervised by a person who is trained as an asbestos supervisor (EPA Asbestos Hazard Emergency Response Act, 40 CFR 763). SCAQMD's Rule 1403 requires that buildings undergoing demolition or renovation be surveyed for ACM prior to any demolition or renovation activities. Should ACM be identified, Rule 1403 requires that ACM be safely removed and disposed of at a regulated disposal site, if possible. If it is not possible to safely remove ACM, Rule 1403 requires that safe procedures be used to demolish the building with asbestos in place without resulting in a significant release of asbestos to the environment. Additionally, during demolition, grading, and excavation, all construction workers would be required to comply with the requirements of Title 8 of the California Code of Regulations, Section 1529 (Asbestos), which provides the exposure limits, exposure monitoring, respiratory protection, and good working practices by workers exposed to asbestos.

Mandatory compliance with these regulatory requirements would ensure that construction workers and the public are not exposed to significant ACM health hazards during demolition and/or transport of demolition waste to an appropriate disposal facility, and would ensure that impacts related to ACM less than significant.

Upon completion of soil remediation efforts in compliance with the guidelines outlined in Appendix E potentially hazardous materials would likely be handled on the project site as part of project construction. These materials would include gasoline, diesel fuel, lubricants, and other petroleum-based products required to operate and maintain construction equipment. Handling of these potentially hazardous materials would be temporary and would coincide with the short-term construction phase of the project.

Although these materials would likely be stored on the project site, storage would be required to comply with the guidelines set forth by each product's manufacturer and with all applicable federal, state, and local regulations pertaining to the storage of hazardous materials. Consistent with federal, state, and local

requirements, the transport of hazardous materials to and from the project site would be conducted by a licensed contractor. Any handling, transport, use, or disposal of hazardous materials would comply with all relevant federal, state, and local agencies and regulations, including EPA, the California Department of Toxic Substances Control, OSHA, the California Department of Transportation (Caltrans), the Resource Conservation and Recovery Act, and the SCAQMD. Therefore, with compliance with applicable regulations, short-term construction impacts related to the transport, use or disposal of hazardous materials would be less than significant.

Long-Term Operational Impacts

Less-Than-Significant Impact. Potentially hazardous materials associated with project operations would include materials used during typical cleaning and maintenance activities. Although these potentially hazardous materials would vary, they would generally include household cleaning products, paints, fertilizers, and herbicides and pesticides. Many of these materials are considered household hazardous wastes, common wastes, and/or universal wastes by the EPA, which considers these types of wastes to be common to businesses and households and to pose a lower risk to people and the environment than other hazardous wastes when properly handled, transported, used, and disposed of (EPA 2021). Federal, state, and local regulations typically allow these types of wastes to be handled and disposed of with less stringent standards than other hazardous wastes, and many of these wastes do not have to be managed as hazardous waste. Additionally, any potentially hazardous material handled on the project site would be limited in both quantity and concentrations, consistent with other similar industrial uses located in the City, and any handling, transport, use, and disposal would comply with applicable federal, state, and local agencies and regulations. Further, as mandated by OSHA (OSHA n.d.), all hazardous materials stored on the project site would be accompanied by a Material Safety Data Sheet, which would inform employees and first responders as to the necessary remediation procedures in the case of accidental release. Therefore, long-term operational impacts associated with hazardous materials 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?

Less-than-Significant Impact. Refer to response provided in Section 3.9(a).

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?

Less-than-Significant Impact. The nearest school to the project site is Cypress Elementary School (26825 Cypress Street), which is located 0.33 miles north of the project site. Additionally, there is a daycare center, Highland Head Start (26887 W 5th Street) located 0.05 miles north of the project site. However, as previously discussed, demolition and construction of the Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials or create a significant hazard to the public or the environment involving the release of hazardous materials into the environment.

As described in detail in Section 3.3, Air Quality, a construction HRA was prepared to evaluate the health impacts of DPM, a carcinogenic air toxic, that would be emitted from construction equipment associated with the project. As shown in Table 3.3-5 of Section 3.3, proposed construction activities would generate

emissions in excess of site-specific LSTs for PM_{10} and $PM_{2.5}$, however, implementation of MM-AQ-1 would reduce construction-generated impacts to levels less than significant. Additionally, as shown in Table 3.3-8 in Section 3.3, project construction activities would result in a Residential Maximum Individual Cancer Risk of 81.9 in 1 million, which exceeds the significance threshold of 10 in 1 million. Implementation of MM-AQ-1 would reduce construction-generated health risks to levels below SCAQMD thresholds.

As described in detail in Section 3.3, Air Quality, an operational HRA was also prepared to evaluate potential health risk associated with operation of the project. As shown in Table 3.3-11, project operation would result in a Residential Maximum Individual Cancer Risk of 33.6 in 1 million, which is above the significance threshold of 10 in 1 million. However, implementation of MM-AQ-2 would reduce operational health risks to a level of less than significant.

No additional mitigation beyond MM-AQ-1 and MM-AQ-2 is required for impacts within 0.25-mile of a school. With this mitigation measure incorporated, impacts associated with emitting or handling hazardous materials within 0.25 miles of a school would be less than significant.

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?

No Impact. The project site is not included on any hazardous waste site lists, including the California Department of Toxic Substances Control's EnviroStor database, the State Water Resources Control Board's GeoTracker site, the Cortese list, or other lists compiled pursuant to Section 65962.5 of the Government Code (EPA 2021; DTSC 2021; SWRCB 2021b). Therefore, no impacts associated with hazardous materials sites would occur.

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?

Less-than-Significant Impact. The San Bernardino International Airport and Trade Center (SBIA) is located approximately 0.25 miles south of the project site. The SBIA includes two distinct components: 1) the airport portions (and related facilities) of the former Norton Air Force Base, and 2) the Trade Center, which encompasses the non-airport related portions of the former base. The project site is located within the Airport Influence Area (General Plan Figure 6-7) outlined in the City's General Plan (City of Highland 2006). As required by state law for real estate transactions within the Airport Influence Area, notification/disclosure statements are required to alert potential buyers and tenants of the presence of and potential impacts from the San Bernardino International Airport. The San Bernardino Airport Land Use Plan is currently being drafted and was not available at the time of this report. Nonetheless, the Federal Aviation Administration Regulations Title 14 Part 77 determines restrictions to obstructions and height limitations for structures taller than 200 feet or within 20,000 feet of an airport. The proposed project would be consistent with the general land use of the area. Additionally, the project would be consistent with Section 19.20.015 Noise Standards. Therefore, impacts would be less than significant.

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

Less-than-Significant Impact. The City of Highland has an Emergency Operations Plan to ensure the most effective and economical allocation of resources for the maximum benefit and protection of the City in times of emergency. No revisions to this plan would occur as a result of the project. The project does not propose any changes to the geometry of evacuation route roadways to the extent that these roadways' ability to serve as emergency evacuation routes would be compromised. As a result, the project would not significantly affect emergency response or evacuation activities. Therefore, impacts would be less than significant.

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 City's General Plan does not designate the project site as an area that would be at risk from wildland fires. Although there are currently some isolated vacant lots in the vicinity of the project site, the area surrounding the project site is largely developed and would not likely aid the spread of wildfire. Therefore, no direct or indirect impacts due to wildfire 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 offsite;	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☒	☐

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

Short-Term Construction Impacts

Less-than-Significant Impact. Construction of the project would include earthwork activities that could potentially result in erosion and sedimentation, which could subsequently degrade downstream receiving waters and violate water quality standards. Stormwater runoff during the construction phase may contain silt and debris, resulting in a short-term increase in the sediment load of the municipal storm drain system. Substances such as oils, fuels, paints, and solvents may be inadvertently spilled on the project site and subsequently conveyed via stormwater to nearby drainages, watersheds, and groundwater.

For stormwater discharges associated with construction activity in the State of California, the State Water Resources Control Board (SWRCB) has adopted the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) to avoid and minimize water quality impacts attributable to such activities. The Construction General Permit applies to all projects in which construction activity disturbs more than one acre or more of soil. Construction activity subject to this permit includes clearing, grading, and disturbances to the ground, such as stockpiling and excavation. The Construction General Permit requires the development and implementation of a SWPP, which would include and specify water quality BMPs designed to prevent pollutants from contacting stormwater and keep all products of erosion from moving off site into receiving waters (in this case, the City Creek Channel, the Twin Creek Channel, the Prado Flood Control Basin, the Santa Ana River, and its discharge into the Pacific Ocean). Routine inspection of all BMPs is required under the provisions of the Construction General Permit, and the SWPPP must be prepared and implemented by qualified individuals as defined by the SWRCB (SWRCB 2021a).

The City of Highland is a co-permittee under San Bernardino County's National Pollution Discharge Elimination System (NPDES) Permit (No. CAS618036), and as such is required to adhere to the County-wide NPDES permit requirements. Because land disturbance for project construction activities would

exceed one acre, the project Applicant would be required to obtain coverage under the Construction General Permit issues by the SWRCB prior to the start of construction within the project site. Specifically, the Construction General Permit requires that the following be kept on site at all times: (i) a copy of the Notice of Intent to Comply with Terms of the General Permit to Discharge Water Associated with Construction Activity; (ii) a waste discharge identification number issues by the SWRCB; (iii) a SWPPP and Monitoring Program Plan for the construction activity requiring the construction permit; and (iv) records of all inspections, compliance and non-compliance reports, evidence of self-inspection, and good housekeeping practices.

The SWPPP requires the construction contractor to implement water quality BMPs to ensure that water quality standards are met, and that stormwater runoff from the construction work areas do not cause degradation of water quality in receiving water bodies. The SWPPP must describe the type, location, and function of stormwater BMPs to be implemented, and must demonstrate that the combination of BMPs selected are adequate to meet the discharge prohibitions, effluent standards, and receiving water limitations are contained in the Construction General Permit. Therefore, short-term construction impacts associated with water quality, stormwater drainage, and stormwater runoff would be less than significant.

Long-Term Operational Impacts

Less-than-Significant Impact. The project would be subject to the municipal stormwater permit, the Municipal Separate Storm Sewer System (MS4) Permit, issued to San Bernardino County and incorporated cities within the County by the Santa Ana Regional Water Quality Control Board. The MS4 Permit requires implementation of LID BMPs to prevent pollutants from being discharged off site by mimicking pre-development site hydrology and feasible source control. The LID Ordinance is designed to reduce runoff from impervious surfaces, including new development, through landscape design that promotes water retention, permeable surface design, natural drainage systems, and on-site retention where feasible (RWQCB 2010). These project-specific designs would reduce impacts to water quality associated with redevelopment.

As required by the San Bernardino County Municipal Separate Stormwater Sewer System NPDES Permit, a preliminary Water Quality Management Plan (WQMP) was prepared for the project in February 2022 (Appendix F-1). The WQMP is a post-construction management program that outlines implementation measures to ensure water quality standards are met, including implementation of source control and operational BMPs such as designing landscape to minimize irrigation and runoff; utilizing covered and leak proof trash dumpsters; and sweeping and litter control of loading areas in order to prevent pollutants from entering runoff. The WQMP would be implemented prior to the issuance of grading/building permits as required by the San Bernardino County Municipal Separate Stormwater Sewer System NPDES Permit. The project would not violate any water quality standards or waste discharge requirements during long-term operation through compliance with the WQMP. Therefore, long-term operational impacts associated with water quality, stormwater drainage, and stormwater runoff would be less than significant.

In summary, project grading and construction would be completed in accordance with an NPDES-mandated SWPPP, which would include standard BMPs to reduce potential off-site water quality impacts related to erosion and incidental spills of petroleum products and hazardous substances from equipment. Surface water runoff during project operations would be managed through the use of a proposed underground infiltration/detention system on the west side of the project site. Therefore, the project would not violate

any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality and water quality 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 project site is located within the service area of the EVWD. EVWD's main water supply is from the Bunker Hill Basin which has the capacity to provide 70,000 acre-foot per year from groundwater and surface water resources. The proposed project would include a 2-inch water service line that would connect to the existing 8-inch EVWD water line located along Central Avenue.

Additionally, according to the geotechnical investigation (Appendix D), groundwater was not encountered during test excavations, which extended to a maximum depth of 15.5 feet. As such, the project's subsurface construction activities, which would only extend a few feet below grade, are highly unlikely to encounter groundwater, and dewatering activities are not anticipated to be necessary. Therefore, impacts associated with groundwater supplies would be less than significant.

Groundwater Recharge

Less-than-Significant Impact. While not fully developed, the project site is highly disturbed and does not contain a groundwater recharge basin or other facilities that promote groundwater recharge. Thus, under the existing condition, the project site is not considered an important location for groundwater recharge. Following construction, the project site would contain landscape areas and other pervious surfaces that would allow for water to percolate into the subsurface soils compared to the existing conditions. Therefore, impacts associated with groundwater recharge 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. Under the existing conditions, the project site consists of used-car parking and vacant land. The project would result in the demolition and removal of the existing structures on the project site and the construction of new paved surfaces, a warehouse building, and landscape areas. Existing on-site runoff sheet flows southwesterly to 3rd Street. Off-site runoff is collected by an existing storm drain system in 3rd Street. The existing drainage system would serve as an emergency overflow for the proposed 72-inch corrugated metal pipe infiltration system. The project would also include a new engineered storm drainage system that would feature structural BMPs, including an infiltration/detention system to treat and manage on-site stormwater flows. The proposed infiltration/detention system would be designed to capture 100% of a 100-year storm event and would minimize the potential for siltation or erosion on or off site. The project's proposed storm drain system would be designed to conform with all applicable federal, state and local requirements related to drainage, hydrology, and water quality, including the current MS4 Permit adopted by the Santa Ana RWQCB. Additionally, the project's structural BMPs would

be designed such any potential sediments collected on site are captured in retention facilities so that they would not be conveyed to downstream waters and result in siltation.

As such, altering the on-site drainage pattern would be conducted in a manner consistent with all applicable standards related to the collection and treatment of stormwater, such that they would not result in substantial erosion or siltation on or off site. Therefore, impacts associated with altering the existing drainage pattern of the project site 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 offsite?

Less-than-Significant Impact. As discussed in Section 3.10(c)(i), the project would increase the amount of impervious surfaces on the project site and inevitably alter the existing on-site drainage pattern. Runoff generated by the project site would be routed to the proposed underground infiltration/detention system on the western side of the project site through a combination of roof drains, storm drains, curbs, and gutters. The development of the existing site into the proposed project would not create any adverse impacts downstream for storm events up to the 100-year storm. There would not be an increase in the existing discharge from the site in both the 10-year and 100-year events due to the proposed infiltration basin that would be sized to capture and infiltrate the 100-year rainfall event. Discharge from the site would greatly decrease from the existing condition.

Under existing conditions, stormwater runoff sheet flows southwest to 3rd Street. There are currently no existing storm drain facilities on the western side of the project site to capture surface runoff, and stormwater is collected in a storm drain system in 3rd Street. As such, the proposed project would not increase the amount of surface runoff and 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 Section 3.10(c)(i), the project would increase the amount of impervious surfaces on the project site and inevitably alter the existing on-site drainage pattern. Runoff generated by the project site would be routed to the proposed underground infiltration/detention system on the western side of the project site through a combination of roof drains, storm drains, curbs, and gutters.

The proposed on-site underground infiltration/detention system was designed to infiltrate 100% of the 100-year storm event. However, if the proposed underground infiltration/retention chamber system reaches capacity, flows would then be discharged through a proposed 8-inch drain pipe that connects to the existing curb inlet in 3rd Street that would lead to the existing 3rd Street storm drain system that would serve as an emergency spillway (Preliminary Drainage Report, Appendix F-2). According to the Preliminary Drainage Report (Appendix F-2) prepared for the project, the underground infiltration/detention system has the capacity to retain 9,936 cubic feet of stormwater before any stormwater is allowed to discharge from the project site, which is large enough to accommodate a 100-year storm event. The analysis concluded that the drainage and storm drain facilities are adequately sized to handle a 100-year design storm event, consistent with the methodology outlined in the San Bernardino County Flood Control District Hydrology Manual.

Therefore, impacts associated with the project creating or contributing runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff would be less than significant.

iv) Impede or redirect flood flows?

No Impact. According to the Federal Emergency Management Agency Flood Insurance Rate Maps No. 06071C8701J and 06071C8702H (FEMA 2016), the project site is located in Zone X which is located outside of the 0.2% Annual Chance Flood Hazard Zone (500-year floodplain) and is within an area with reduced flood risk due to levee. Implementation of the project would not substantially impede or redirect flood flows. Therefore, no impacts associated with flooding would occur.

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

Less-than-Significant Impact. The project site is located approximately 70 miles east of the Pacific Ocean. Because of the project site's inland location, the project would not be subject to tsunami. Additionally, due to the lack of a larger adjacent perennial waterbody such as a reservoir or lake, the project site would not be susceptible to seiche. Further, the project site's relatively flat topography and lack of nearby hillside would eliminate any impact-related mudflow. However, the project site, along with most of the City of Highland, is within the limit of flooded area with dam failure of the Seven Oaks Dam and 500-year floodplain (City of Highland 2006). The Seven Oaks Dam has been designed to resist an earthquake measuring 8.0 on the Richter scale and is designed to provide flood protection during 350-year storm events. Based on these design characteristics and ongoing maintenance of the dam's structural integrity, it is highly unlikely that the project site would be subject to inundation due to failure of the Seven Oaks Dam. Therefore, due to the low likelihood that the Seven Oaks Dam would be subject to failure and because the project would not involve the uncontained storage of pollutants outside of the proposed building, the project would not risk release of pollutants due to inundation associated with these natural phenomena, and impacts would be less than significant.

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

Less-than-Significant Impact. Refer to responses provided in Section 3.10(a) and 3.10(b). The project would comply with regional and local regulations requiring preparation of a SWPPP and would not obstruct existing water quality control plans or groundwater sustainable management plans. In addition, the project applicant would comply with the project specific WQMP during operation activities. The proposed project would provide an on-site infiltration/detention basin, which would help the City sustainably manage groundwater levels. Therefore, impacts associated with conflict with a water quality control plan or sustainable groundwater management plan would be less than significant.

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?	☐	☐	☒	☐

a) Would the project physically divide an established community?

No Impact. The physical division of an established community is typically associated with the construction of a linear feature, such as a major highway or railroad tracks, or removal of a means of access, such as a local road or bridge, which would impair mobility within an existing community or between a community and an outlying area. Currently, the project site is located within an area of the City that is primarily zoned for business park and industrial uses, and thus, is not used as a connection between two established communities.

Instead, connectivity in the surrounding project area is facilitated via local roadways and pedestrian facilities. Despite the nearby scattered residential uses, the project would not impede movement between these residences within the project area, within an established community, or from one established community to another. Therefore, no impacts associated with division of an existing community 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 City's Zoning Map designates the project site as BP. According to Section 16.24.020 (A), the primary purpose of the BP District is to provide appropriate regulations and suitable locations for light industrial, research and development, and office-based firms seeking pleasant and attractive working environments, and for business support services and commercial uses requiring large parcels (City of Highland 2021). The Municipal Code identifies Warehousing and Wholesaling as permitted, subject to a conditional use permit application (City of Highland 2021). As part of the City's site-plan review process, the City would thoroughly review all plans for the proposed project to ensure compliance with all applicable development standards set forth in the Municipal Code and other relevant land use plans, policies, and regulations. As part of the City's site-plan review process, the City has determined that the project would be consistent with all development standards required for the BP Zone, with the exception of Section 16.24.040 Employment district development standards, of the City's Municipal Code, which states that building heights are not to exceed 35 feet within the BP District. The project proposes a building height of 42.5. However, with the processing of a variance consistent with the

procedures outlined in Section 16.08.870, which states that the City may permit such modification of the height regulations as are necessary to secure an appropriate improvement on a lot. As such, upon approval of Variance No. 22-001, the project's height could be allowed within in the BP District.

The City's General Plan Land Use Map designates the project site as BP within the 5th Street Corridor (City of Highland 2006). The BP land use permits a variety of light industrial, research and development, and office uses. The maximum floor area ratio permitted within the BP designation is 0.6 (City of Highland 2006). The proposed project would include construction of an industrial warehouse with a maximum floor area ratio of 0.55. As such, the proposed project is consistent with the permitted land use and maximum density permitted by the City.

The 5th Street Corridor is located along 5th Street from Tippecanoe Avenue to SR-210. The purpose of the 5th Street Corridor is to take advantage of the increasing demand for industrial uses west of I-15 by providing opportunity to capture some of this potential employment growth by creating an area within the City dominated by Business Park and Industrial land uses (City of Highland 2006). Development of a light industrial warehouse would introduce additional processing and distribution opportunities in close proximity to the San Bernardino International Airport.

As such, the project would be consistent with local plans, policies, and regulations governing land use decisions. Therefore, impacts associated with applicable land use plans, policies, and regulations would be less than significant.

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?	☐	☐	☒	☐

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?

Less-than-Significant Impact. According to the City's General Plan, the project site is within an MRZ-2, meaning significant mineral deposits or likelihood of significant mineral deposits exist; however, the significance of the deposit is undetermined.

The project site is located in an urbanized portion of the City and is bound by existing residential, commercial, and industrial development in all directions. Mineral resource mining is not a compatible use with these land uses. The project site is not large enough to effectively extract mineral resources. Considering the existing surrounding land uses and the incompatibility of mineral resource extraction activities in the project area, potential significant mineral resources within the project area are considered unavailable for extraction. Therefore, impacts associated with mineral resources would be less than significant.

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?

Less-than-Significant Impact. Refer to the response provided in Section 3.11(a).

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?	☐	☐	☒	☐

Noise and Vibration Characteristics

Noise is defined as unwanted sound. Sound may be described in terms of level or amplitude (measured in decibels [dB]), frequency or pitch (measured in hertz or cycles per second), and duration (measured in seconds or minutes). The standard unit of measurement of the amplitude of sound is the decibel. Because the human ear is not equally sensitive to sound at all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel (dBA) scale performs this compensation by discriminating against low and very high frequencies in a manner approximating the sensitivity of the human ear. Several descriptors of noise (noise metrics) exist to help predict average community reactions to the adverse effects of environmental noise, including traffic-generated noise, on a community. These descriptors include the equivalent noise level over a given period (L_{eq}), the

statistical sound level, the day–night average noise level (L_{dn}), and the Community Noise Equivalent Level (CNEL). Each of these descriptors uses units of dBA. Table 3.13-1 provides examples of A-weighted noise levels from common sounds. In general, human sound perception is such that a change in sound level of 3 dBA is barely noticeable, a change of 5 dBA is clearly noticeable, and a change of 10 dBA is perceived as doubling or halving the sound level.

Table 3.13-1. Typical Sound Levels in the Environment and Industry

Common Outdoor Activities	Noise Level (dBA)	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 kilometers per hour (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.
Note: dBA = A-weighted decibel.

L_{eq} is a sound energy level averaged over a specified period (typically no less than 15 minutes for environmental studies). L_{eq} is a single numerical value that represents the amount of variable sound energy received by a receptor during a time interval. For example, a 1-hour L_{eq} measurement would represent the average amount of energy contained in all the noise that occurred in that hour. L_{eq} is an effective noise descriptor because of its ability to assess the total time-varying effects of noise on sensitive receptors.

Unlike the L_{eq} metrics, L_{dn} and CNEL metrics always represent 24-hour periods, usually on an annualized basis. L_{dn} and CNEL also differ from L_{eq} because they apply a time-weighted factor designed to emphasize noise events that occur during the evening and nighttime hours (when speech and sleep disturbance is of more concern). “Time weighted” refers to the fact that L_{dn} and CNEL penalize noise that occurs during certain sensitive periods. In the case of CNEL, noise occurring during the daytime (7:00 a.m.–7:00 p.m.) receives no penalty. Noise during the evening (7:00 p.m.–10:00 p.m.) is penalized by adding 5 dB, while nighttime (10:00 p.m.–7:00 a.m.) noise is penalized by adding 10 dB. L_{dn} differs from CNEL in that the daytime period is defined as 7:00 a.m.–10:00 p.m., thus eliminating the evening period. L_{dn} and CNEL are the predominant criteria used to measure roadway noise affecting residential receptors. These two metrics generally differ from one another by no more than 0.5 dB to 1 dB and, as such, are often treated as equivalent to one another.

Vibration

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration can be a serious concern, causing buildings to shake and rumbling sounds to be heard. In contrast to noise, vibration is not a common environmental problem. It is unusual for vibration from sources such as buses and trucks to be perceptible, even in locations close to major roads. Some common sources of vibration are trains, buses on rough roads, and construction activities, such as blasting, pile driving, and heavy earthmoving equipment.

Several different methods are used to quantify vibration. Peak particle velocity is defined as the maximum instantaneous peak of the vibration signal. Peak particle velocity is most frequently used to describe vibration impacts to buildings and is usually measured in inches per second. The root mean square amplitude is most frequently used to describe the effect of vibration on the human body and is defined as the average of the squared amplitude of the signal. Decibel notation is commonly used to measure root mean square. The decibel notation acts to compress the range of numbers required to describe vibration.

High levels of vibration may cause physical personal injury or damage to buildings. However, vibration levels rarely affect human health. Instead, most people consider vibration to be an annoyance that can affect concentration or disturb sleep. In addition, high levels of vibration can damage fragile buildings or interfere with equipment that is highly sensitive to vibration (e.g., electron microscopes). Most perceptible indoor vibration is caused by sources within buildings, such as operation of mechanical equipment, movement of people, or slamming of doors. Typical outdoor sources of perceptible vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If the roadway is smooth, the vibration from traffic is rarely perceptible.

Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas would be considered noise and vibration sensitive and may warrant unique measures for protection from intruding noise. Sensitive receptors in the vicinity of the project site consist of a Head Start school located to the northeast, legal non-conforming residential uses (i.e., non-residentially zoned) located to the north, east and west of the project site, and zoned residential uses to the north,. These sensitive receptors represent the nearest sensitive land uses with the potential to be impacted by construction and/or operation of the project.

Existing Noise Conditions

Noise measurements were conducted in the vicinity of the project site on January 11, 2022, to characterize the existing noise levels. Table 3.13-2 provides the locations, dates, and times the noise measurements were taken. The noise measurements were taken using a Soft dB Piccolo sound level meter equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The sound level meter meets the current American National Standards Institute standard for a Type 2 (General Use) sound level meter. The accuracy of the sound level meter was verified using a field calibrator before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

Table 3.13-2. Measured Noise Levels

Receptor	Location	Date	Time	L_{eq} (dBA)	L_{max} (dBA)
ST1	Northeast of project site, adjacent to a Head Start School at 26887 5th Street	1/11/22	11:41 a.m.–11:56 a.m.	63.8	84.5
ST2	North of project site, adjacent to residence at 26837 Mossway Street	1/11/22	12:04 p.m.–12:19 p.m.	63.6	79.4
ST3	Northeast of project site, adjacent to residence at 27014 5th Street	1/11/22	12:32 p.m.–12:47 p.m.	65.1	76.6
ST4	West of project site, adjacent to residence at 26562 3rd Street	1/11/22	1:01 p.m.–1:16 p.m.	64.1	80.7

Source: Appendix G-1.
Notes: L_{eq} = equivalent continuous sound level (time-averaged sound level); dBA = A-weighted decibels; L_{max} = maximum sound level during the measurement interval.

Four short-term noise measurement locations (ST1–ST4) were conducted in the vicinity of the project site, as shown in Figure 12, Noise Measurement Locations. The measured L_{eq} and maximum noise levels are provided in Table 3.13-2. The field noise measurement data sheets are provided in Appendix G-1, Field Data Noise Sheets. The primary noise sources at the sites identified in Table 3.13-2 consisted of traffic on local roadways; other, secondary noise sources included occasional construction activities, and birds. As shown in Table 3.13-2, the measured sound levels ranged from approximately 64 dBA L_{eq} at ST1, ST2 and ST3 to approximately 65 dBA L_{eq} at ST4.

Regulatory Setting

Federal

There are no federal noise standards that would directly regulate environmental noise during construction and operation of the project. The following is provided because guidance summarized herein is used or pertains to the analysis.

Federal Transit Administration

In its Transit Noise and Vibration Impact Assessment guidance manual, the Federal Transit Administration (FTA) recommends a daytime construction noise level threshold of 80 dBA L_{eq} over an 8-hour period (FTA 2018) when detailed construction noise assessments are performed to evaluate potential impacts to community residences surrounding a project. Although this FTA guidance is not a binding regulation, it is provided here for comparison purposes in the absence of such limits at the state and local jurisdictional levels.

Federal Interagency Committee on Noise

Some guidance regarding the determination of a substantial permanent increase in ambient noise levels in the project vicinity above existing levels is provided by the 1992 findings of the Federal Interagency Committee on Noise (FICON) (FICON 1992), which assessed the annoyance effects of changes in ambient noise levels resulting from aircraft operations. The FICON recommendations are based upon studies that relate aircraft and traffic noise levels to the percentage of persons highly annoyed by the noise. Annoyance is a qualitative measure of the adverse reaction of people to noise that generates speech interference, sleep disturbance, or interference with the desire for a tranquil environment.

The rationale for the FICON recommendations is that it is possible to consistently describe the annoyance of people exposed to transportation noise in terms of L_{dn}. The changes in noise exposure that are shown in Table 3.13-3 are expected to result in equal changes in annoyance at sensitive land uses. Although the FICON recommendations were specifically developed to address aircraft noise impacts, they are used in this analysis to define a substantial increase in community noise levels related to all transportation noise sources and permanent non-transportation noise sources.

Table 3.13-3. Measures of Substantial Increase for Community Noise Sources

Ambient Noise Level Without Project (Ldn)	Significant Impact Assumed to Occur if the Project Increases Ambient Noise Levels by:
<60 dBA	+ 5 dBA or more
60-65 dBA	+ 3 dBA or more
>65 dBA	+ 2 dBA or more

Source: FICON 1992.
Notes: L_{dn} = day–night average noise level; dBA = decibels.

State

California Government Code

California Government Code Section 65302(f) mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of "normally acceptable," "conditionally acceptable," "normally unacceptable," and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 dBA CNEL and "conditionally acceptable" up to 70 dBA CNEL.[23] Multiple-family residential uses are "normally acceptable" up to dBA 65 CNEL and "conditionally acceptable" up to dBA 70 CNEL. Schools, libraries, and places of worship are "normally acceptable" up to 70 dBA CNEL, as are office buildings and business, commercial, and professional uses.

Local

City of Highland Municipal Code

Operational Noise Standards

Pursuant to Chapter 8.50 (Noise Control) of the Highland Municipal Code, allowable daytime (between the hours of 7:00 AM and 10:00 PM) and nighttime (between the hours of 10:00 PM and 7:00 AM) noise levels are as follows:

- Residential – 60 dBA daytime, 55 dBA nighttime.
- Commercial – 70 dBA daytime, 65 dBA nighttime.
- Industrial Zone – 75 dBA at any time.

Construction Noise Standards

[23] A "conditionally acceptable" designation implies new construction or development should be undertaken only after a detailed analysis of the noise reduction requirements for each land use is made and needed noise insulation features are incorporated in the design. By comparison, a "normally acceptable" designation indicates that standard construction can occur with no special noise reduction requirements.

Pursuant to Section 8.50.060 (Exemptions), noise associated with "construction, repair, or excavation work performed pursuant to a valid written agreement with the city or any of its political subdivisions, which agreement provides for noise mitigation measures", is exempt. Because the proposed project does not include a Development Agreement or other agreement with the City or any of its political subdivisions, it is not exempt from performing a construction noise analysis and providing adequate mitigation measures. The following includes an analysis of the project's construction noise impacts.

City of Highland General Plan

The City's General Plan Noise Element (City of Highland 2006) references the Municipal Code's noise standards as guidelines to evaluate the acceptability of noise impacts. These standards are used to assess long-term noise impacts on land uses. The Noise Element identifies noise problems in the community, quantifies existing and projected noise levels, addresses excessive noise exposure, and provides regulations to control noise. The General Plan Noise Element contains the following goals and policies that address noise and are applicable to the project:

Goal 7.1. Protect sensitive land uses and the citizens of Highland from annoying and excessive noise through diligent planning and regulation.

Policies:

- Enforce the City's Noise Control Ordinance consistent with health and quality of life goals and employ effective techniques of noise abatement through such means as a noise ordinance, building codes and subdivision and zoning regulations.
- Encourage the use of site planning and architectural techniques such as alternative building orientation and walls combined with landscaping to mitigate noise to levels consistent with interior and exterior noise standards.
- Require mitigation where sensitive uses are to be placed along transportation routes to ensure compliance with interior and exterior noise standards.
- Consider the compatibility of proposed land uses with the noise environment when preparing, revising or reviewing development proposals.

1. Require that site-specific noise studies be conducted by a qualified acoustic consultant utilizing acceptable methodologies while reviewing the development of sensitive land uses or development that has the potential to impact sensitive land uses. Also require a site-specific noise study if the proposed development could potentially violate the noise provisions of the General Plan or City ordinance.
   Actions:

   3) When site and architectural design features cannot sufficiently reduce adverse noise levels, or cannot be economically provided, require the provision of noise barriers/berms, provided that noise barriers:
      1. are sufficiently massive to prevent significant noise transmission and high enough to shield receiver from noise source;
      2. noise barriers exhibit a minimum acceptable density of four pounds per square foot (equivalent to 3/4-inch plywood);
      3. contain no cracks or openings; and
      4. minimize the effect of flanking by bending the barrier back from the noise source at the end of the barrier.

4) Require landscaping treatment to be provided in conjunction with noise barriers to provide visual relief and to reduce aesthetic impacts.
6) Maintain a noise complaint file to document areas of excessive noise in the City.

Goal 7.3. Protect residents from the effects of "spill over" or nuisance noise.

Policies:

1. Enforce the City's Noise Control Ordinance so that new projects located in commercial or entertainment areas do not exceed stationary-source noise standards at the property line of proximate residential or commercial uses, as appropriate.
2. Prohibit new industrial uses from exceeding commercial or residential stationary-source noise standards at the most proximate land uses, as appropriate. (Industrial noise may spill over to proximate industrial uses so long as the combined noise does not exceed the appropriate industrial standards.)
3. Require that construction activities employ feasible and practical techniques to minimize noise impacts on adjacent uses. Particular emphasis shall be placed on the restriction of hours in which work other than emergency work may occur.
4. Require that the hours of truck deliveries to commercial properties abutting residential uses be limited unless there is no feasible alternative or there are overriding transportation benefits by scheduling deliveries at another hour.
5. Ensure that buildings are constructed to prevent adverse noise transmission between differing uses located in the same structure and individual residences in multi-family buildings.

Actions:

1) As a condition of approval, limit non-emergency construction activities adjacent to existing noise-sensitive uses to daylight hours between 7:00 a.m. and 6:00 p.m. Discourage construction on weekends or holidays except in the case of construction proximate to schools where these operations could disturb the classroom environment.
2) Ensure that the design and placement of air conditioning units and pool equipment within residential areas is accomplished in a manner that does not intrude upon the peace and quiet of adjacent noise-sensitive uses.
3) Encourage the use of portable noise barriers for heavy equipment operations performed within 100 feet of existing residences or make applicant provide evidence as to why the use of such barriers is infeasible.

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?

Short-Term Construction Noise

Less-than-Significant Impact. Construction noise is considered a short-term impact and would be considered significant if construction activities were to exceed the allowable hours of operation, as permitted by the City. Noise-sensitive land uses in the vicinity of the project include legal non-conforming

residences to the north[24] (within approximately 25 feet), to the northeast (within approximately 1,000 feet of the construction boundary) and to the west (within approximately 1,150 feet of the construction boundary); a Head Start school to the northeast (within approximately 180 feet of the construction boundary); zoned residential uses to the north (north of 3rd Street, within approximately 420 feet of the construction boundary). The construction noise assessment focused on noise levels that would occur at the nearest noise-sensitive land uses; construction noise levels at greater distances from the site would be lower. Modeling assumptions and output calculations are provided in Appendix G-2, Construction Noise Modeling Inputs and Outputs.

Project-generated construction noise will vary depending on the construction process, the type of equipment involved, the location of the construction site with respect to sensitive receptors, the schedule proposed to carry out each task (e.g., hours and days of the week), and the duration of the construction work. A likely worst-case construction noise scenario using information provided by the project applicant and equipment identified by CalEEMod (see Section 3.3, Air Quality) for this type and size of project was calculated using a spreadsheet model based the Federal Highway Administration's Roadway Construction Noise Model (FHWA 2008). Table 3.3-2 in Section 3.3 presents the equipment list used for the construction noise analysis. The results are summarized in Table 3.13-4 (see Appendix G-2 for model results). Table 3.13-4 provides construction noise estimates for both a "typical worst-case" 1-hour average scenario in which construction equipment may be operating in proximity to any one receiver for extended periods, as well as a typical 8-hour workday in which it is assumed that the equipment would be in motion and working both near and far from any one receiver, operating (on average) at the approximate acoustic center of the project site. The average noise levels (based upon the acoustic center[25]) are considered a better representation of the overall noise exposure experience for adjacent receivers over the duration of each construction phase.

As shown, the highest noise levels from construction are predicted to range from approximately 80 dBA $L_{eq\ 1\text{-}hour}$ (during the architectural coating phase) to 88 dBA $L_{eq\ 1\text{-}hour}$ (during site preparation and grading) at the nearest receivers. These maximum noise levels are considered to be a peak exposure, applicable to not more than 10%–15% of the total construction period, only while the construction activity is taking place along the property boundary closest to these nearest off-site receivers. In terms of a typical 8-hour workday, the highest noise levels from construction are predicted to range from approximately 57 dBA $L_{eq\ 8\text{-}hour}$ (during the architectural coating phase) to 69 dBA $L_{eq\ 8\text{-}hour}$ (during demolition) at the nearest receivers. Noise levels, while relatively high when equipment is operating near the project boundaries, would not exceed the FTA's 80 dBA $L_{eq\ 8\text{-}hour}$ threshold.

24 Based upon the City of Highland Zoning Map (http://maps.digitalmapcentral.com/production/VECommunityView/cities/highland/index.aspx?), the proposed project site as well as the entire two blocks (from 3rd Street to 5th Street in the north-south direction and Victoria Ave. to Alabama Street in the east-west direction) is zoned BP: Business Park. Similarly, the block at the northeast corner of Central Ave. and 5th Street is zoned I: Industrial.

25 The acoustic center is the combination of all construction work occurring on-site, near and far, and is considered to be equivalent to the geometric center, for the purposes of this analysis.

Table 3.13-4. Construction Noise Summary of Results (dBA $L_{eq\ 1\text{-}hour}$/ dBA $L_{eq\ 8\text{-}hour}$)

Receiver Location (Distance)/ Description	Zoning Designation	Construction Noise Level by Construction Phase[1]					
		Demo.	Site Prep.	Grading	Building Const.	Paving	Arch. Coating
Residence to the north (as near as 25 feet) / Legal Non-Conforming Residence	Business Park	87/69	88/66	88/68	82/63	83/65	80/57
Head Start Facility to the northeast (as near as 180 feet)	Business Park	70/62	68/59	69/60	62/55	65/57	59/49
Residence to the northeast (as near as 1,000 feet) / Legal Non-Conforming Residence	Industrial	54/52	51/49	53/50	47/45	49/47	42/39

Source: Appendix G-2.
Notes: dBA = A-weighted decibels; $L_{eq\ 1\text{-}hour}$ = equivalent continuous sound level (time-averaged sound level) during a 1-hour period near the project boundary; $L_{eq\ 8\text{-}hour}$ = equivalent continuous sound level (time-averaged sound level) during an 8-hour construction work day; Demo. = Demolition; Site Prep. = Site Preparation; Building Const. = Building Construction; Arch. Coating = Architectural Coating.
[1] See Section 3.3, Air Quality.

Based on the construction noise analysis, noise levels during construction are estimated to create noise levels at sensitive receivers that would not exceed the FTA construction noise threshold of 80 dBA $L_{eq\ 8\text{-}hour}$. The project would be required to adhere to City of Highland General Plan limitations on construction noise through restrictions on allowable construction hours (Goal 7.3, Action 1):

> "As a condition of approval, limit non-emergency construction activities adjacent to existing noise-sensitive uses to daylight hours between 7:00 a.m. and 6:00 p.m. Discourage construction on weekends or holidays except in the case of construction proximate to schools where these operations could disturb the classroom environment."

Thus, with incorporation of the City's standard conditions, impacts associated with short-term construction noise would be less than significant and no mitigation measures would be required.

Long-Term Operational Noise

Less-than-Significant Impact. Operation of the project would result in the generation of noise both on and off site. Consistent with similar warehouse and light industrial uses, business operations supported by the project would primarily be conducted within the enclosed buildings, except for traffic movement, parking, and loading and unloading of trucks at designated loading bays. As such, on-site operational noise sources are expected to include roof-top air conditioning units, parking lot activity, and truck loading dock activity. Off-site noise could be generated by vehicles, including heavy trucks, accessing the project site and contributing to vehicular roadway noise. As detailed below, these operational project activities would not result in the generation of a substantial temporary or permanent increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies.

On-Site Operational Noise

Implementation of the project would result in changes to existing noise levels on and around the project site by developing new stationary sources of noise, including introduction of outdoor HVAC equipment. These sources may affect noise-sensitive vicinity land uses off the project site.

The proposed warehouse space overall would not be served by heating or air conditioning equipment. However, the floor plan includes an office with an associated mezzanine space at the southeast building corner. For the analysis of noise from HVAC equipment operation, a York Model ZF-048 package HVAC unit was used as a reference. Based upon the square footage of the office and mezzanine spaces (6,000 square feet total), it was assumed that two such units would be required for the office/mezzanine areas. The York Model ZF-048 package HVAC unit has a sound power rating of 80 dBA (Johnson Controls 2015). Based on the warehouse roof design provided, there will be a 2.8-foot-high parapet extending along the perimeter of the roof, which would minimize sound from the HVAC unit at nearby noise-sensitive land uses.

Assuming all the HVAC equipment is operating simultaneously for a minimum period of 1 hour, the worst-case calculated noise level at each property line and at the nearby residences is presented in Table 3.13-5. The maximum hourly noise level for all the HVAC equipment operating at each examined point along the property and the nearest noise-sensitive uses would range from 16 to 31 dBA L_{eq}, which is well below the City's noise standard for both commercial zoning (70 dBA L_{eq} daytime, 65 dBA L_{eq} nighttime) and residences (60 dBA L_{eq} daytime, 55 dBA L_{eq} nighttime). The noise level calculation spreadsheets for the HVAC package units are included in Appendix G-3, Equipment Specifications and Noise Calculations.

Table 3.13-5. Mechanical Equipment Operation Noise Summary of Results

Equipment	Noise Level at Property Boundary	
	Receiver Location	Average Noise Level (dBA Leq)
HVAC	N1	18
HVAC	W1	16
HVAC	E1	28
HVAC	SE1	31
HVAC	Head Start to NE	26
HVAC	Residence to N	23

Source: Appendix G-3.
Note: dBA = A-weighted decibels; L_{eq} = equivalent continuous sound level (time-averaged sound level); CNEL = Community Noise Equivalent Level; HVAC = heating, ventilation, and air conditioning.

The results of the mechanical equipment operations noise analysis indicate that the project would comply with City and State of California noise standards.

Parking Lot Activity

A comprehensive study of noise levels associated with surface parking lots was published in the Journal of Environmental Engineering and Landscape Management (Baltrënas et al. 2004). The study found that average noise levels during the peak period of use of the parking lot (generally in the morning with arrival of commuters and in the evening with the departure of commuters) were 47 dBA at 1 meter (3.3 feet) from the outside boundary of the parking lot. The parking area would function as a point source for noise, which means that noise would attenuate at a rate of 6 dBA with each doubling of distance. The employee parking lots are proposed to be situated on the east and

southwest sides of the warehouse, no closer than 25 feet from the property line of the project site (from center of drive-aisle to fence) on the northern side, 49 feet on the western side, and approximately 42 feet on the eastern side and at the southeastern corner. At a distance of 25 feet, parking lot noise levels would be approximately 29 dBA L_{eq} at the northern property boundary. At a distance of 49 feet, parking lot noise levels would be approximately 24 dBA L_{eq} at the western property boundary. At a distance of 42 feet, parking lot noise levels would be approximately 25 dBA L_{eq} at the eastern and southeastern property boundaries. Parking lot activity noise levels are summarized in Table 3.13-6.

Truck Loading Dock Activity

The parking lot study (Baltrënas et al. 2004) also examined noise levels associated with cargo truck delivery activity, including noise produced by backup alarms and forklift/yard hostler operations. The study concluded that average noise levels from truck loading/unloading areas was 96 dBA at 1 meter (3.3 feet) from the boundary of the truck activity area. The truck loading dock area (i.e., the truck court) would be located on the northern side of the proposed warehouse building. The loading docks would be located approximately 130 feet from the northern property line and approximately 150 feet from the western property line. At the east property line and southeast property corner, the noise and view of the loading docks would be entirely obstructed by the warehouse building and would be more than 240 feet away. Using the outdoor attenuation rate of 6 dBA with each doubling of distance, truck loading activity along the northern property line would produce noise levels of approximately 64 dBA L_{eq} while noise levels along the western property boundary from truck loading activity would average approximately 63 dBA L_{eq}, not accounting for the shielding effects from the proposed 8-foot high, approximately 6-inches wide, perimeter, concrete wall at the northern boundary . Accounting for this acoustical shielding, the truck loading dock noise at the northern project boundary is estimated to be approximately 55 dBA L_{eq}. Truck loading dock activity noise levels are summarized in Table 3.13-6 and combined with the other on-site noise sources.

Table 3.13-6. Combined On-Site Noise Summary of Results – Noise Levels (dBA L_{eq}) at Property Boundaries

Receiver Location	Zoning	Applicable Noise Standard - Daytime (7 a.m. to 10 p.m.) / Nighttime (10 p.m. to 7 a.m.)	HVAC	Parking Lot Activity	Truck Loading Dock Activity	Combined HVAC, Parking Lot and Truck Loading Dock Activities Noise	Applicable Noise Standard Exceeded?
N1	Business Park	70/65	18	29	55	55	No
W1	Business Park	70/65	16	24	63	63	No
E1	Business Park	70/65	28	25	27	32	No
SE1	Business Park	70/65	31	25	30	34	No
Head Start to NE	Business Park	70/65	26	8	30	31	No
Residences to N	Business Park	70/65	23	23	31	33	No

Source: Appendix G-3.

As shown in Table 3.13-6, on-site noise sources associated with the proposed project would not exceed applicable noise standards. Thus, on-site operational noise would be less than significant.

Project-Generated Off-Site Traffic Noise

The project is expected to generate 96 daily trips to the roadway system; in terms of passenger car equivalent (PCE), which accounts for truck percentages, the project would generate 138 daily PCE trips. On an hourly basis, the project would result in a total of 11 AM and 11 PM peak-hour trips, consisting of 7 passenger vehicles and 4 trucks (ranging in size from 2-axle trucks to 4+ axle trucks). In terms of PCE, the project would result in a total of 17 AM and 17 PM PCE peak-hour trips[26]. Vehicles entering and exiting the project site would use 3rd Street, which has average daily traffic volumes of approximately 9,658[27]. This amounts to a small fraction of the total daily volume on 3rd Street. The project would not result in a doubling of trips on any particular road segment. Typically, a doubling of the energy of a noise source, such as a doubling of traffic volume, would increase noise levels by 3 dBA.[28] Given that it would result in only a modest increase in traffic on local and regional roadways, the project is not expected to result in an increase of 3 dBA or greater on roadways in the study area. The change in noise level due to the project would not be audible. Therefore, impacts associated with off-site project-generated traffic noise would be less than significant.

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

Less-than-Significant Impact. The main concern associated with groundborne 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 groundborne vibration are trains and construction activities such as blasting, pile-driving, and heavy earth-moving equipment. The primary source of groundborne vibration occurring as part of the proposed project is construction activity.

Groundborne vibration information related to construction/heavy equipment activities has been collected by Caltrans. Information from Caltrans indicates that transient vibrations (such as from construction activity) with approximately 0.035 inches per second peak particle velocity (PPV) may be characterized as barely perceptible, and vibration levels of 0.24 inches per second PPV may be characterized as distinctly perceptible (Caltrans 2020). The heavier pieces of construction equipment, such as large bulldozers or hoe rams, would register up to approximately 0.089 inches per second PPV at a distance of 25 feet, and a clam shovel drop would measure up to approximately 0.202 inches per second PPV at a distance of 25 feet (FTA 2018).

Groundborne vibration is typically attenuated over relatively short distances. At the nearest existing noise/vibration-sensitive use distance to the nearest construction area (approximately 80 feet – the Head Start building to the northeast) and with the anticipated construction equipment, the vibration level would be approximately 0.016 inches per second PPV. This vibration level would be lower than the threshold of

26 Data from the proposed project's trip generation estimates (Section 3.17, Transportation).
27 Airport Gateway Specific Plan, Traffic Impact Analysis 2019.
28 Under normal circumstances (i.e., outside of a controlled setting such as a listening laboratory), a 3 dBA increase in noise levels is considered to be the smallest increase that is audible to the human ear; whereas a less than 3 dBA increase in noise levels is considered to be a barely or non-audible increase.

"barely perceptible" of 0.035 inches per second PPV and would also be lower than the threshold of "distinctly perceptible" of 0.24 inches per second PPV.

The major concern with construction vibration is related to building damage. Construction vibration as a result of the proposed project would not result in structural building damage, which typically occurs at vibration levels of 0.5 inches per second PPV or greater for buildings of reinforced-concrete, steel, or timber construction. Therefore, impacts related to groundborne vibration would be less than signficant.

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?***

Less-than-Significant Impact. No private airstrips are located in the project vicinity. The SBIA is located approximately 0.3 miles south of the project site. The project site is located within the Airport Influence Area (General Plan Figure 6-7) outlined in the City's General Plan (City of Highland 2006). As required by state law for real estate transactions within the Airport Influence Area, notification/disclosure statements are required to alert potential buyers and tenants of the presence of and potential impacts from the San Bernardino International Airport. According to Exhibit 4H (Existing and Ultimate Noise Contours) of the Airport Layout Plan Narrative Report for San Bernardino International Airport (San Bernardino International Airport Authority 2010), the SBIA's 65 dBA CNEL ultimate noise contour would be located approximately 0.2 miles south of the project site.

Policy 1 of Goal 11.1 ("Reduce exposure of people to aircraft noise and overflights, and ensure adequate public notification through buyer awareness measures") within the City's General Plan (City of Highland 2006) states: "Limit the development of sensitive land uses located within the 65 decibel (dB) Community Noise Equivalent Level (CNEL)". The City considers residential dwellings and institutional uses such as hospitals, convalescent homes and churches to be sensitive noise receptors, while retail and office uses are considered to be relatively insensitive land uses. Other land use types, including industrial and manufacturing, are considered to be least impacted by noise. Because the proposed project is not noise-sensitive, and because the project site is located outside the 65 dBA CNEL noise contour, the proposed project would not expose people residing or working in the project area to excessive noise levels. Thus, aircraft and airport-related noise would be less than significant.

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)?	☐	☐	☒	☐

	Potentially Significant Impact	Less Than Significant Impact With Mitigation Incorporated	Less Than Significant Impact	No Impact
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

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 project would require a temporary construction workforce and a permanent operational workforce, both of which could potentially induce population growth in the project area. The temporary workforce would be needed to construct the proposed warehouse building and associated improvements. The number of construction workers needed during any given period would largely depend on the specific stage of construction but will likely average a few dozen workers at any given time throughout the workday. These short-term positions are anticipated to be filled primarily by workers who reside in the project area vicinity. Therefore, construction of the project would not generate a permanent increase in population within the project area.

In terms of operational employees, because the future tenant is not yet known, the number of jobs that the project would generate cannot be precisely determined, but it can be estimated. For purposes of analysis, employment estimates are calculated using average employment density factors reported by SCAG. SCAG reports that for every 1,195 square feet of warehouse space in San Bernardino County, the average numbers of jobs supported is one employee (SCAG 2001). The proposed warehouse would be 54,330 square feet, and as such, the estimated number of employees required for operation would be approximately 46 people.

According to the SCAG Demographics and Growth Forecast, employment in the City is anticipated to grow from 6,900 employees in 2016 to 11,100 employees in 2045 (SCAG 2020). The project-related increase in employment would be minimal in comparison to the anticipated increase in the SCAG Demographics and Growth Forecast.

Additionally, as of September 2021, the California Employment Development Department found that the unemployment rate for Riverside-San Bernardino-Ontario Metropolitan Statistical Area, including the City of Highland, is at 6.6%, which is similar to the state average (7.3%) and higher than the national average (4.6%) for the same period (EDD 2021). Therefore, the project's temporary and permanent employment requirements could likely be met by the City's existing labor force without the need for people to relocate to the project region. The project would not stimulate population growth or a population concentration above what is assumed in local and regional land use plans. Therefore, impacts associated with population growth 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. Under existing conditions, the project site is not developed with residential uses; thus, the project would not remove people or housing from the site. Therefore, no impacts associated with the displacement of existing people or housing 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:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

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. The California Department of Forestry and Fire Protection (CAL FIRE) provides fire protection and emergency medical services to the City of Highland, including the project site, through a cooperative agreement that provides for CAL FIRE employees to staff City-owned facilities and apparatus (City of Highland 2006). The City of Highland also has available fire protection services from other area agencies such as the cities of Redlands and Yucaipa, and the U.S. Forest Service (City of Highland 2006). The City also participates in the Statewide Master Mutual Aid Agreement, which provides additional assistance from San Bernardino City and County Fire Departments and the San Manuel Fire Department (City of Highland 2006).

The closest fire station to the project is Highland Fire Department Station No. 541 (26974 Base Line Street), located approximately 1 mile north of the project site. Considering the proximity of the project site to Station No. 541, and given the fact that the project site is already located within CAL FIRE's service area, the project could be adequately served by the various fire departments without adversely effecting personnel-to-resident ratios, response times, or other performance objectives.

In addition, the project would not directly or indirectly induce population growth in the City. Although the project could potentially result in a slight, incremental increase in calls for service to the project site in comparison to the existing conditions, this increase is expected to be nominal and would not result in the need for new CAL FIRE facilities. Nonetheless, similar to other development projects in the City, the project applicant would still be required to pay their fair share of development impact fees to help offset incremental impacts to fire protection services. Therefore, impacts associated with CAL FIRE facilities and response times would be less than significant.

Police protection?

Less-than-Significant Impact. The City of Highland contracts with the San Bernardino County Sheriff's Department (SBSD) to provide police protection to the City, including the project site (City of Highland 2006). The SBSD has one patrol station in the City of Highland, located at 26985 East Base Line Street, approximately 1 mile north of the site.

The project would not directly or indirectly induce population growth in the City. While the project would potentially result in a slight, incremental increase in calls to the SBSD for service to the project site in comparison to the existing conditions, this increase is expected to be nominal and would not result in the need for new SBSD facilities. In addition, the project site is already located within SBSD's service area and would not require an expansion of service area, which could otherwise result in longer response time. Overall, it is anticipated that the project would be adequately served by existing SBSD facilities, equipment, and personnel. Nonetheless, similar to other development projects in the City, the project applicant would still be required to pay their fair share of development impact fees to help offset incremental impacts to police protection services. Therefore, impacts associated with SBSD facilities and response times would be less than significant. In addition, the applicant will be required to follow the City of Highland's Development Impact Fee Ordinance (Fee Ordinance). The Fee Ordinance requires the applicant submit a fee payable to the City which will apply to the funding of public facilities, including law enforcement facilities. Therefore, impacts to police protection resources resulting from the proposed project would be less than significant.

Schools?

No Impact. The project site is located within the San Bernardino City Unified School District. It is not anticipated that people would relocate to the City as a result of the project, and an increase in school-age children requiring public education is not expected to occur as a result of the project. Nonetheless, all residential and non-residential development projects are subject to SB 50, which requires payment of mandatory impact fees to offset any impact to school services or facilities. The provisions of SB 50 are deemed to provide full and complete mitigation of school facilities impacts, notwithstanding any contrary provisions in CEQA or other state or local laws (Government Code Section 65996). In accordance with SB 50, the project applicant would pay its fair share of impacts fees based on the number/type of dwelling units. These impact fees are required of most residential, commercial, and industrial development projects in the City. Therefore, no impacts associated with school facilities would occur.

Parks?

No Impact. Given the lack of population growth as a result of the project, neither construction nor operation of the project would generate new residents to the extent that new or expanded park facilities would be required. Therefore, no impacts associated with park facilities would occur.

Other public facilities?

No Impact. The project would not directly or indirectly induce substantial population growth in the City. As such, it is unlikely that the project would increase the use of other public facilities such as libraries. Therefore, no impacts associated with libraries and other public facilities 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?	☐	☐	☐	☒

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 project would construct a new warehouse building and associated improvements. The project does not propose any residential uses and would not directly or indirectly result in a substantial and unplanned increase in population growth within the project area. As such, the project would not increase the use of existing neighborhood parks or regional parks in the City and surrounding area. Therefore, no impacts associated with the use of existing residential facilities 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 project would construct a new warehouse building and associated improvements. The project does not propose any recreational facilities. As an industrial use, the project would not require the construction or expansion of recreational facilities. Therefore, no impacts associated with the construction of new or expansion of existing recreational facilities 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?	☐	☐	☒	☐

The following analysis is based, in part, on the Transportation Impact Assessment prepared by Dudek in May 2022, included as Appendix H.

The following analysis was prepared consistent with the City of Highland Public Works Policies, Procedures and Standards (2022), and the San Bernardino Council of Governments Congestion Management Program (SANBAG 2016) to determine the level of analysis required based on the number of two-way peak hour trips generated by the project. Additionally, based on guidance from City of Highland staff, the City of San Bernardino's Traffic Impact Analysis Guidelines, were utilized to evaluate the project. Many of the VMT criteria listed in the City of San Bernardino's Guidelines are based on the Governor's Office of Planning and Research (OPR) Guidelines (OPR 2018).

Trip Generation Analysis

Trip generation estimates for the project are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers *Trip Generation, 11th Edition* (2021), using the Warehousing land use (ITE Code 150).

PCE factors were also applied to the trip generation estimates to account for truck traffic. The City of Highland indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks per the San Bernardino County CMP. Table 3.17-1 presents the project's daily, and AM and PM peak hour trip generation estimates.

Table 3.17-1. Project Trip Generation Summary

Land Use	ITE Code	Size/Units		Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Trip Rates[1]										
Warehousing	150	TSF		1.71	0.13	0.04	0.17	0.05	0.13	0.18
Trip Generation										
3rd Street and Central Avenue Warehouse	150	54.330	TSF	93	7	2	9	3	7	10
Trip Generation (PCE Adjustments)										
Warehousing Vehicle Mix[2]		Percent[2]								
Passenger Vehicles		72.5%		68	5	2	7	2	5	7
2-Axle Trucks		4.6%		4	0	0	0	0	0	0
3-Axle Trucks		5.7%		5	1	0	1	0	1	1
4+-Axle Trucks		17.2%		16	1	0	1	1	1	2
Project Trip Generation (Non-PCE)				**93**	**7**	**2**	**9**	**3**	**7**	**10**
		PCE Factor[3]								
Passenger Vehicles		1.0		68	5	2	7	2	5	7
2-Axle Trucks		1.5		6	0	0	0	0	0	0
3-Axle Trucks		2.0		10	2	0	2	0	2	2
4+-Axle Trucks		3.0		48	3	0	3	3	3	6
Project Trip Generation (PCE)				**132**	**10**	**2**	**12**	**5**	**10**	**15**

Notes: TSF = Thousand Square Feet; ITE = Institute of Transportation Engineers
1 Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017.
2 Vehicle Mix and Percent from SCAQMD, Warehouse Truck Trip Study Data Results and Usage, July 2014.
3 Passenger Car Equivalent (PCE) factors per the San Bernardino County Congestion Management Program (CMP), 2016.

As detailed above, the project would generate 93 daily trips, 9 AM peak hour trips (7 inbound and 2 outbound), and 10 PM peak hour trips (3 inbound and 7 outbound). With the application of PCE factors for truck traffic, the project would generate 132 daily PCE trips, 12 AM peak hour PCE trips (10 inbound and 2 outbound), and 15 PM peak hour PCE trips (5 inbound and 10 outbound).

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. As detailed in the following text, the project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.

Roadway Facilities

The project is located within the jurisdiction of the City of Highland; therefore, the following consistency requirements would apply.

San Bernardino Associated Governments Congestion Management Plan

The City of Highland is located in San Bernardino County and therefore, the San Bernardino County Transportation Authority CMP applies to the City. To address the increasing public concern that traffic congestion is impacting the quality of life and economic vitality of the State of California, Proposition 111 created the CMP in 1990. The intent of the CMP is to provide the analytical basis for transportation decisions through the State Transportation Improvement Program process. In 1990, the San Bernardino Associated Governments was designated the Congestion Management Agency for San Bernardino County. Although implementation of the CMP was made voluntary by the passage of AB 2419 (Bowler 1996), the CMP requirement has been retained in San Bernardino County.

The LOS at each CMP location is monitored by local jurisdictions in order to implement the statutory requirements of the CMP. If LOS standards deteriorate, then local jurisdictions must prepare a deficiency plan to meet conformance standards outlined by the countywide plan. The local CMP requires that a TIA report be prepared when a project's trip generation exceeds 250 two-way peak hour trips and expects to add at least 50 two-way peak hour trips to a State highway facility. For the CMP roadway system, the LOS standard shall be E for all segments and intersections except those designated LOS F, as listed in Table 2-1 of the CMP (SANBAG 2016).

Based on the project's trip generation estimates as described above, development of the proposed project would not be likely to result in degradation of the nearby CMP facilities due to the low volume of vehicular traffic (less than 250 peak hour trips, and less than 50 peak hour trips to a State highway facility, per the CMP). Therefore, impacts associated with project-related traffic on both the local and regional circulation system would be less than significant.

City of Highland

Traffic Study Guidelines

The City of Highland Traffic Study Guidelines are included in Chapter 9 of the City's Public Works Policies, Procedures and Standards Manual. Although changes in CEQA regarding SB 743 implementation shifts the primary metric for traffic analyses from LOS to VMT, the City has not yet adopted updated guidelines or thresholds related to VMT. As such, the City continues to require a Traffic Report to analyze the surrounding transportation network to evaluate the project's effect on the City's transportation infrastructure, and identify improvements required to maintain consistency with the City's LOS standards. Per the Traffic Study Guidelines, a Traffic Report would be required if a project exceeds the CMP thresholds (250 two-way peak hour trips) or generates more than 1,000 new two-way daily trips, or 100 two-way peak hour trips. Additionally, the City may require a Traffic Report if there are concerns regarding access, roadway structural impacts or level of service on intersection or roadway segments adjacent to the project. Trip generation estimates for the project are summarized above.

Based on the project's trip generation estimates as described above, development of the proposed project would likely not result in degradation of the nearest intersections of 3rd Street/Central Avenue, Central Avenue/5th Street, or other nearby intersections due to the low volume of vehicular traffic (less than 100 peak hour trips). However, the scoping of a focused Traffic Report is in progress with the City and is subject to review and approval by the City prior to project approval. By proceeding with scoping of a Traffic Report,

the project complies with and would not conflict with the City's Traffic Study Guidelines. Therefore, impacts would be less than significant.

General Plan Circulation Element

The City of Highland adopted its most recent version of the General Plan in March 2006. The General Plan Circulation Element takes into consideration transit, bicycle, pedestrian, and other multimodal uses. The Circulation Element primarily utilizes volume-to-capacity LOS as a measurement in the rating of the performance of streets. The Circulation Element establishes the following LOS criteria:

- LOS D or better for major intersections in the City.
- LOS D is considered acceptable for peak operating periods.
- Any City of Highland intersection operating at LOS "E" or "F" is considered deficient.

As the proposed project is forecast to generate 12 AM peak hour trips and 15 PM peak hour trips (PCE-adjusted), the proposed project would not exceed the 250 two-way peak hour trip threshold for the preparation of a TIA per the CMP or the 100 two-way peak hour trip threshold for preparation of a Traffic Report per the City's Traffic Study Guidelines. Therefore, a TIA and further LOS analysis would not be required, unless requested by the City for a focused analysis of specific facilities as noted above.

Additionally, the project site is bordered by 3rd Street to the south and Central Avenue to the east, and 5th Street is located to the north of the project site. In the vicinity of the project, Central Avenue is not designated in the City's General Plan Circulation Element; however, north of 5th Street, Central Avenue is designated as a Major Highway.

The section of Central Avenue adjacent to the project site is not currently built to its ultimate ROW. The project would provide the ROW necessary for consistency with the General Plan and Central Avenue's buildout conditions. Central Avenue has a posted speed limit of 25 miles per hour. The segment of roadway adjacent to the site is unimproved (i.e., no curb and gutter, and no sidewalk), except for a portion of the west side of the road near the Central Avenue/5th Street intersection. 3rd Street is designated as a Major Highway per the City's General Plan Circulation Element. Per the Circulation Element, a Major Highway is generally designed as a four-lane roadway intended to provide nonlocal through trips and limited local access, with an 88-foot curb-to-curb width (with a 12-foot median), within a 104-foot ROW. The project would improve the pedestrian and ROW as required along 3rd Street along the project's frontage. 3rd Street is also designated as a truck route, with a posted speed limit of 45 miles per hour. Curb and gutter is constructed, and pedestrian facilities are provided along this portion of Central Avenue adjacent to the project site, except for a portion of the northern side of 3rd Street near the Central Avenue/3rd Street intersection.

Therefore, impacts related to project consistency with the General Plan Circulation Element would be less than significant.

Pedestrian and Bicycle Facilities

Although the General Plan Circulation Element includes several bicycle classifications, the City of Highland Active Transportation Plan, adopted February 2021, provides a more comprehensive and updated overview of the City's current and future recommendations to enhance multi-modal facilities:

Class I Shared-Use Paths are paths completely separated from motor vehicle traffic used by people for walking and biking. These paths are typically located immediately adjacent and parallel to a roadway or in its own independent ROW, such as within a park or along a body of water.

Class II Bicycle Lanes are dedicated lanes for bicycle travel adjacent to traffic. A painted white line separates the bicycle lane from motor vehicle traffic.

Class IIB Buffered Bicycle Lane are dedicated lanes for bicycle travel separated from vehicle traffic by a painted buffer. The buffer provides additional comfort for users by providing space from motor vehicles or parked cars.

Class III Bicycle Routes are signed bike routes that people biking share with motor vehicles, which can include pavement markings.

Class IIIB Bicycle Boulevards are calm, local streets where bicycles have priority but share roadway space with motor vehicles. These boulevards include shared roadway bicycle markings on the pavement as well as traffic calming features such as speed humps and traffic diverters to keep these streets more comfortable for bicycles.

The only bicycle facilities in the vicinity of the Project site are Class II Bike Lanes along 3rd Street. The project is not expected to generate a significant amount of bicyclists and therefore would not affect the existing bicycle facilities. As such, the project would not conflict with existing or proposed bicycle facilities, and impacts would be less than significant.

Pedestrian facilities are provided along the frontage of the project site on 3rd Street, with a continuous sidewalk to Victoria Avenue, however at the intersection of 3rd Street/Central Avenue, the sidewalk ends. Additionally, along both sides of Central Avenue, there are no pedestrian facilities, except for a portion of the west side of the road near the Central Avenue/5th Street intersection. The project would improve the curb and gutter, and pedestrian facilities where the project frontage exists, and follow all of the City's standard plans and guidelines for pedestrian facilities, curb and gutter, and drainage. The project is not expected to generate a significant amount of pedestrians and therefore, would not affect existing pedestrian facilities. As such, development of the project would not conflict with the existing pedestrian facilities, and impacts would be less than significant.

Transit Facilities

Omnitrans provides public transportation throughout the San Bernardino Valley and would serve as the nearest transit service to the project site. Omnitrans Route 15 is the nearest bus route that services the project site. Route 15 connects the Fontana Metrolink Transit Center, the San Bernardino Transit Center, and the Redlands Transit Center, and also provides stops within the City of Highland. The nearest bus stop to the project site is located at the intersection of 5th Street/Central Avenue, approximately 750-feet north of the project. Route 15 provides daily service with average headways of approximately one hour, with service beginning as early as 5:05 a.m. and ending as late at 9:45 p.m. on weekdays (Omnitrans 2022). Development of the proposed project would not conflict with the existing bus routes or bus stops. Therefore, impacts to transit 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. CEQA Guidelines Section 15064.3(b) focuses on VMT for determining the significance of transportation impacts. As shown in the analysis below, the project's impact due to conflict or inconsistency with Section 15064.3(b) would be less than significant.

On September 27, 2013, SB 743 was signed into law, which creates a process to change the way that transportation impacts are analyzed under CEQA. SB 743 required OPR to amend the CEQA Guidelines to provide an alternative to LOS for evaluating transportation impacts. Under the new transportation guidelines, LOS, or vehicle delay, will no longer be considered an environmental impact under CEQA. OPR recommended VMT as the most appropriate measure of project transportation impacts for land use projects and land use plans. The updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. The OPR Technical Advisory (OPR 2018) provides guidance and tools to properly carry out the principles within SB 743 and how to evaluate transportation impacts in CEQA.

Under these guidelines, VMT has been adopted as the most appropriate measure of transportation impacts under CEQA. The OPR's regulatory text indicates that a public agency may immediately commence implementation of the new transportation impact guidelines, and that the guidelines must be implemented statewide by July 1, 2020. The Updated CEQA Guidelines state that "…generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts…" and define VMT as "…the amount and distance of automobile travel attributable to a project…". It should be noted that "automobile" refers to on-road passenger vehicles, specifically cars and light trucks. Heavy-duty truck VMT could be included for modeling convenience and ease of calculation (for example, where models or data provide combined auto and heavy truck VMT). Other relevant considerations may include the effects of the project on transit and non-motorized travel.

Although the project is located within the boundary of the City of Highland, the City has adopted the City of San Bernardino's CEQA Assessment – VMT Analysis Guidelines, which were developed in coordination with the San Bernardino County Transportation Authority with support of agencies throughout the county. Therefore, the City of San Bernardino's CEQA Assessment – VMT Analysis Guidelines were utilized as the primary source of analysis of VMT and transportation-related impacts herein. The guidance developed is generally based upon the OPR Guidelines and thresholds.

The details of applicable screening and VMT analysis methodology are provided below. If the project does not meet the applicable screening criteria, then further analysis is required.

VMT Screening

As stated previously, the City of San Bernardino's VMT Guidelines were utilized within this memorandum as the primary source of analysis of VMT and transportation-related impacts. The VMT Guidelines suggest that land use projects may screen out of VMT impacts using a variety of factors. The following steps have been used in screening the project's VMT assessment, consistent with the applicable VMT guidelines for SB 743 compliance:

- **Transit Priority Area Screening:**

- Projects located within one-half mile of a Transit Priority Area is defined as one-half mile area around an existing major transit stop[29] or an existing stop along a high quality transit corridor.[30]

The Project is not within one-half mile of a Transit Priority Area, and therefore cannot be presumed to be less than significant under this threshold.

- **Low-VMT Area Screening:**
  - Low-VMT generating areas (as shown in the San Bernardino County Transportation Authority screening tool). A low VMT area is defined as an individual traffic analysis zone where total daily Origin/Destination VMT per service population is lower than the City average total daily Origin/Destination VMT per service population.

The project is not located in a low-VMT generating area.

- **Local Serving Uses and Small Projects Presumed to have Less Than Significant Impact:**
  - Local parks
  - Day care centers
  - Local serving retail uses less than 50,000 square feet, including:
    - Gas Stations
    - Banks
    - Restaurants
    - Shopping Center
  - Student housing projects on or adjacent to college campuses
  - Local serving assembly uses (places of worship, community organizations)
  - Community institutions (public libraries, fire stations, local government)
  - Hotels (non-destination or resort; no banquet or special event space)
  - Affordable or supportive housing
  - Assisted living facilities
  - Senior housing
  - Local serving community colleges that are consistent with the assumptions noted in the Regional Transportation Plan/Sustainable Communities Strategy
  - 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 units

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29 Pub. Resources Code, Section 21064.3 - 'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.

30 Pub. Resources Code, Section 21155 - For purposes of this section, a 'high-quality transit corridor' means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

- 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

Based on the trip generation estimates provided in Table 3.17-1, the project would generate 93 daily trips, 9 AM peak hour trips (7 inbound and 2 outbound), and 10 PM peak hour trips (3 inbound and 7 outbound). Since the project would generate fewer than 110 daily vehicle trips, the project impacts would be less than significant. Therefore, a detailed VMT analysis is not required, and the project would not conflict or be inconsistent with CEQA Guidelines Section 150645.3(b).

As shown in the screening analysis above, the project would be screened out based on its daily traffic generation being less than 110 daily trips. Therefore, further VMT analysis is not required and the project's impact to VMT can be presumed to be less than significant.

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)?

Less-than-Significant Impact. Access to the project site would be provided by one driveway along Central Avenue and one driveway along 3rd Street. The driveway along 3rd Street would serve as truck access driveways, with the Central Avenue driveway dedicated to passenger vehicle access only. Passenger vehicles would also be permitted to utilize the 3rd Street driveway. Per discussion with the City, the 3rd Street driveway would be restricted to right-in/right-out only access due to its proximity to the Central Avenue/3rd Street intersection and other off-site driveways.

The project would construct frontage improvements of existing segments of 3rd Street and Central Avenue, and new driveways for project access.

During site plan review, the internal roadway and driveway widths, curb radii to facilitate passenger car and truck turning and movement would be reviewed, designed, and constructed per City standards and applicable street design requirements.

For on-site construction and any improvements required within the public ROW, the proposed project would be required to comply with standards set forth by the City to ensure that the project does not introduce an incompatible design feature that would impede traffic flow on roadway facilities. There would be no incompatible or hazardous uses associated with the proposed project and impacts would be less than significant.

d) Would the project result in inadequate emergency access?

Less-than-Significant Impact. Site access would be provided via one driveway along Central Avenue and one driveway along 3rd Street. As stated above under threshold (c), the project would not increase roadway hazards. Emergency vehicle access will be available at all driveways and facilitated within the entirety of the project site. The project site would be accessible to emergency responders during construction and operation of the project. Therefore, impacts associated with an emergency response plan or emergency evacuation plan 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:				
v) 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	☐	☒	☐	☐
vi) 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 Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☒	☐	☐

The evaluation of potential impacts to Tribal Cultural Resources is based on the findings resulting from tribal consultation conducted by the City of Highland, as the lead agency, as well as the findings of the Archaeological Resources Assessment conducted by Dudek in 2022 (Appendix C). Background research conducted to inform this analyses include the results of a NAHC SLF search, ethnographic research, archival research and CHRIS database records search, and the results of formal tribal consultation completed by the lead agency, the City, pursuant to AB 52, a brief summary of which is provided in this section.

Existing Setting – Ethnohistoric

The history of the Native American communities prior to the mid-1700s has largely been reconstructed through later mission-period and early ethnographic accounts. The first records of the Native American inhabitants of the region come predominantly from European merchants, missionaries, military personnel, and explorers. These brief, and generally peripheral, accounts were prepared with the intent of furthering respective colonial and economic aims and were combined with observations of the landscape. They were not intended to be unbiased accounts regarding the cultural structures and community practices of the newly encountered cultural groups. The establishment of the missions in the region brought more extensive documentation of Native American communities, though these groups did not become the focus of formal and in-depth ethnographic study until the early twentieth century (Bean and Shipek 1978; Boscana 1846; Harrington 1934; Laylander 2000; Sparkman 1908; White 1963). The principal intent of these researchers was to record the precontact and culturally specific practices, ideologies, and languages that had survived the destabilizing effects of missionization and colonialism. This research, often understood as "salvage ethnography," was driven by the understanding that traditional knowledge was being lost due to the impacts of modernization and cultural assimilation. Alfred Kroeber applied his "memory culture" approach (Lightfoot 2005, p. 32) by recording languages and oral histories within the region. Ethnographic research by Dubois, Kroeber, Harrington, Spier, and others during the early twentieth century seemed to indicate that traditional cultural practices and beliefs survived among local Native American communities.

It is important to note that even though there were many informants for these early ethnographies who were able to provide information from personal experiences about native life before the Europeans, a significantly large proportion of these informants were born after 1850 (Heizer and Nissen 1973); therefore, the documentation of precontact, aboriginal culture was being increasingly supplied by individuals born in California after considerable contact with Europeans. As Heizer (1978) stated, this is an important issue to note when examining these ethnographies, since considerable culture change had undoubtedly occurred by 1850 among the Native American survivors of California.

Based on ethnographic information, it is believed that at least 88 different languages were spoken from Baja California Sur to the southern Oregon state border at the time of Spanish contact (Johnson and Lorenz 2006, p. 34). The distribution of recorded Native American languages has been dispersed as a geographic mosaic across California through six primary language families (Golla 2007).

Golla contended that one can interpret the amount of variability within specific language groups as being associated with the relative "time depth" of the speaking populations (Golla 2007, p. 80). A large amount of variation within the language of a group represents a greater time depth than a group's language with less internal diversity. One method that he has employed is by drawing comparisons with historically documented changes in Germanic and Romantic language groups. Golla observed that the "absolute chronology of the internal diversification within a language family" can be correlated with archaeological dates (2007, p. 71). This type of interpretation is modeled on concepts of genetic drift and gene flows that are associated with migration and population isolation in the biological sciences.

The tribes of this area have traditionally spoken Takic languages that may be assigned to the larger Uto–Aztecan family (Golla 2007, p. 74). These groups include the Gabrielino, Cahuilla, and Serrano. Golla interpreted the amount of internal diversity within these language-speaking communities to reflect a time depth of approximately 2,000 years. Other researchers have contended that Takic may have diverged from Uto–Aztecan ca. 2600 BC–AD 1, which was later followed by the diversification within the Takic speaking tribes, occurring approximately 1500 BC–AD 1000 (Laylander 2000).

Serrano

Traditionally, the Serrano lived in an area east of the Gabrielino and north of the Cahuilla, near present-day western San Bernardino County and northeastern Los Angeles County (Laylander 2000). The Serrano occupied an area in and around the San Bernardino Mountains between approximately 1,500 and 11,000 feet above mean sea level. Their territory extended west along the northern slope of the San Gabriel Mountains, east as far as Twentynine Palms, north along the Mojave River, and south to the San Jacinto area. Kroeber (1925) divided the Serrano into four distinct groups within the western Mojave Desert: the Kitanemuk, Tataviam, Serrano, and Vanyume. Each group held a distinct territory within the region (Kroeber 1925). According to Bean and Smith (1978a, p. 570), "the Serrano resided in an area that extended east of the Cajon Pass, located in the San Bernardino Mountains, to Twenty-nine Palms, the north foothills of the San Bernardino Mountains and south to include portions of the Yucaipa Valley."

Serrano social organization was based on patrilineal and patrilocal lineages. Exogamy rules required that a man could not marry a woman related to them within five generations. Women moved to their husband's village, but kept their identity as a member of their natal lineage (Cultural Systems Research 2005:15).

The Serrano were mainly hunters and gatherers who occasionally fished. Game hunted included mountain sheep, deer, antelope, rabbits, small rodents, and various birds, particularly quail. Vegetable staples consisted of acorns, piñon nuts, bulbs and tubers, shoots and roots, berries, mesquite, barrel cacti, and Joshua tree (Bean and Smith 1978a; Cultural Systems Research 2005:15). A variety of materials was used for hunting, gathering, and processing food, as well as for shelter, clothing, and luxury items. Shells, wood, bone, stone, plant materials, and animal skins and feathers were used for making baskets, pottery, blankets, mats, nets, bags and pouches, cordage, awls, bows, arrows, drills, stone pipes, musical instruments, and clothing (Bean and Smith 1978a).

The majority of the Serrano lived in small villages, close to sources of fresh water (Benedict 1924). Houses and ramadas were round, dome-shaped, and constructed of poles covered with bark and tule mats (Benedict 1924; Kroeber 1925). The Serrano also had sweat houses and ceremonial houses for religious activities. Further, according to Benedict (1924), a typical Serrano settlement was a village with multiple small satellite camps surrounding it. Most Serrano villages also had a ceremonial house used as a religious center. Other structures within the village might include granaries and sweathouses (Bean and Smith 1978a). According to DeBarros (2004), one of the more prominent Serrano villages was called Guapiabit, and it was located in Summit Valley.

Gabrieliño/Tongva

The archaeological record indicates that the Gabrielino arrived in the Los Angeles Basin around 500 B.C. Surrounding native groups included the Chumash and Tataviam to the northwest, the Serrano and Cahuilla to the northeast, and the Juaneño and Luiseño to the southeast.

The names by which Native Americans identified themselves have, for the most part, been lost and replaced by those derived by the Spanish people administering the local Missions. These names were not necessarily representative of a specific ethnic or tribal group, and traditional tribal names are unknown in the post-Contact period. The name "Gabrieliño" or "Gabrieleño" was first established by the Spanish from the San Gabriel Mission and included people from the established Gabrielino area as well as other social groups (Bean and Smith 1978b; Kroeber 1925). Some contemporary Gabrieliño identify themselves as descendants of the indigenous people living across the plains of the Los Angeles Basin and refer to themselves as the Tongva (King 1994, p. 12).

This term is used in the remainder of this section in addition to the name "Gabrieleño" to refer to the precontact inhabitants of the Los Angeles Basin and their descendants.

The Gabrieleño/Tongva established large, permanent villages along rivers and streams, and lived in sheltered areas along the coast. Gabrieleño/Tongva lands included the greater Los Angeles Basin and three Channel Islands—San Clemente, San Nicolas, and Santa Catalina—and stretched from the foothills of the San Gabriel Mountains to the Pacific Ocean. Archaeological sites composed of villages with various sized structures have been identified through the Los Angeles Basin. A total tribal population has been estimated of at least 5,000 (Bean and Smith 1978b, p.540), but recent ethnohistoric work suggests a number approaching 10,000 seems more likely (O'Neil 2002). At least one Gabrieleño/Tongva village was located near Glendora: Ashuukshanga (also Azucsagna), located near the mouth of the San Gabriel River in present-day Azusa (McCawley 1996, p. 44). Within the permanent village sites, the Gabrieleño/Tongva constructed large, circular, domed houses made of willow poles thatched with tule, each of which could hold upwards of 50 people (Bean and Smith 1978b). Other structures constructed throughout the villages probably served as sweathouses, menstrual huts, ceremonial enclosures, and communal granaries. Cleared fields for races and games, such as lacrosse and pole throwing, were created adjacent to Tongva villages (McCawley 1996).

The Gabrieleño/Tongva subsistence economy was centered on gathering and hunting. The surrounding environment was rich and varied, and the tribe exploited mountains, foothills, valleys, and deserts as well as riparian, estuarine, and open and rocky coastal eco-niches. Like most native Californians, acorns were the staple food (an established industry by the time of the early Intermediate Horizon). Acorns were supplemented by the roots, leaves, seeds, and fruits of a variety of flora (e.g., islay, cactus, yucca, sages, and agave). Freshwater and saltwater fish, shellfish, birds, reptiles, and insects, as well as large and small mammals, were also consumed (Bean and Smith 1978b, p. 546; Kroeber 1925, pp. 631–632; McCawley 1996, pp. 119–123, 128–131).

The Gabrieleño/Tongva participated in an extensive exchange network, trading coastal goods for inland resources. They exported Santa Catalina Island steatite products, roots, seal and otter skins, fish and shellfish, red ochre, and lead ore to neighboring tribes, as well as to people as far away as the Colorado River. In exchange, they received ceramic goods, deerskin shirts, obsidian, acorns, and other items. This burgeoning trade was facilitated by the use of craft specialists, a standard medium of exchange (Olivella bead currency), and the regular destruction of valuables in ceremonies, which maintained a high demand for these goods (McCawley 1996, pp. 112–115).

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 tribal cultural resources must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. PRC Section 21074 describes a tribal cultural resource as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American Tribe. A tribal cultural resource (TCR) is either:

- On the CRHR or a local historic register;
- Eligible for the CRHR 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 tribal cultural resource 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 tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, 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

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 that the lead agency notify California Native American Tribal representatives (that have requested notification) who are traditionally or culturally affiliated with the geographic area of the proposed project. All NAHC-listed California Native American Tribal representatives that have requested project notification pursuant to AB 52 were sent letters by the City on April 5, 2022, 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. Two tribes responded to this request for consultation. A response was received by the Gabrieleno Band of Mission Indians – Kizh Nation. The Gabrieleno Band of Mission Indians – Kizh Nation stated that they deferred to San Manuel Band of Mission Indians regarding knowledge of the project site and any applicable mitigation measures. The Yuhaaviatam of San Manuel Nation (formerly known as the San Manuel Band of Mission Indians) responded to the request for consultation and requested mitigation measures to be made a part of the project conditions. These mitigation measures have been incorporated into the project, as discussed below.

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 discussed in Section 3.5, no previously recorded archaeological resources of Native American origin or tribal cultural resources listed in the CRHR or a local register were identified within the proposed project site as a result of the SCCIC records or NAHC SLF search. As discussed in Section 3.5, the potential to encounter intact deposits containing archaeological resources within soils from the current grade and between 1 and 2.5 feet below ground surface is unlikely. However, the potential for intact cultural deposits to exist within native soils (below between 1 and 2.5 feet below ground surface) to the depths of assumed ground disturbance is unknown. For these reasons, the proposed project site should be treated as potentially sensitive for archaeological resources. Additionally, the City

notified California Native American Tribal representatives who are traditionally or culturally affiliated with the geographic area of the project pursuant to AB 52. While no tribal cultural resources were identified on the project site, the Yuhaaviatam of San Manuel Nation requested that mitigation measures be incorporated into the project. While no known tribal cultural resources have been identified on the site, given that the potential for intact cultural deposits to exist within soils from 18 inches below current grade to the proposed depths of disturbance is unknown, MM-TCR-1 shall be required, in addition to MM-CUL-1, MM-CUL-2, and MM-CUL-3. With incorporation of these mitigation measures, impacts would be less than significant.

MM-TCR-1 Tribal Cultural Resources – The Yuhaaviatam of San Manuel Nation (formerly the San Manuel Band of Mission Indians Cultural Resources Department) shall be contacted if any pre-contact and/or historic-era cultural resources are discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with the Yuhaaviatam of San Manuel Nation, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents the Yuhaaviatam of San Manuel Nation for the remainder of the project, should the Yuhaaviatam of San Manuel Nation elect to place a monitor on-site. 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 Lead Agency for dissemination to the Yuhaaviatam of San Manuel Nation. The City and/or applicant shall, in good faith, consult with the Yuhaaviatam of San Manuel Nation 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 tribal cultural resources 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. As discussed previously in Section 3.18(a), while no tribal cultural resources were identified on the project site, the Yuhaaviatam of San Manuel Nation requested that mitigation measures be incorporated into the project. While no known tribal cultural resources have been identified on the site, given that the potential for intact cultural deposits to exist within soils from 18 inches below current grade to the proposed depths of disturbance is unknown, MM-TCR-1 shall be required, in addition to MM-CUL-1, MM-CUL-2, and MM-CUL-3. With incorporation of these mitigation measures, impacts would be less than significant.

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?	☐	☐	☒	☐

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 project involves the construction of a warehouse building, as well as paved parking areas and landscape areas. The project site currently consists of an existing structure and vacant land. As such, the proposed project would increase demand for water supply compared to existing land uses.

As part of the project, utility service lines, including those for water, stormwater drainage, electric power, natural gas, and telecommunications services, would be extended from their current locations in the public ROW surrounding the project site for operation of the proposed warehouse building. The proposed project would connect to existing 8-inch water line within Central Avenue, as well as various underground pipes to convey stormwater to a 72-inch corrugated metal pipe infiltration system.

Given that the activity of connecting utilities from their current locations within the public right-of-way would require ground disturbance and the use of heavy machinery associated with trenching, the connection of these utility services to the proposed warehouse building could potentially result in environmental effects. However, the extension of these utility lines is part of the proposed project analyzed herein. As such, any potential environmental impacts related to these components of the project are already accounted for in this IS/MND as part of the impact assessment conducted for the entirety of the project. No adverse physical effects beyond those already disclosed in this IS/MND would occur as a result of implementation of the project's utility system connections. Additionally, the project would constitute a nominal increase in utility usage, which has already been accounted for in growth projections for the City and by each utility provider. No modifications to utility infrastructure would be necessary outside of the immediate project area. As such, impacts associated with the construction or expansion of utility line connections 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. Domestic water would be provided to the project site by the EVWD. The EVWD provides domestic water for the City and for portions of both the City and County of San Bernardino. The primary water source for EVWD is groundwater from the Bunker Hill Basin. The Bunker Hill Basin has the capacity to provide 70,000 acre-foot per year of water from groundwater and surface water sources (City of San Bernardino 2005). The San Bernardino Valley Regional Urban Water Management Plan contains existing and projected water supplies for the region, including the EVWD. Table 3.19-1 shows projected water supplies during single- and multiple-dry year conditions, which represents "worst-case" conditions during extended periods of drought when supplies would be reduced.

Table 3.19-1. Projected Multiple Dry Year Supply and Demand Comparison (Acre-Feet)

Multiple Dry Year Scenario	2025	2030	2035	2040	2045
First Year					
Supply Totals	26,676	26,676	26,676	52,972	52,972
Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference (supply minus demand)	0	0	0	0	0
Second Year					
Supply Totals	26,676	26,676	26,676	52,972	52,972
Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference (supply minus demand)	0	0	0	0	0
Third Year					
Supply Totals	26,676	26,676	26,676	52,972	52,972
Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference (supply minus demand)	0	0	0	0	0
Fourth Year					
Supply Totals	26,676	26,676	26,676	52,972	52,972
Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference (supply minus demand)	0	0	0	0	0

Table 3.19-1. Projected Multiple Dry Year Supply and Demand Comparison (Acre-Feet)

Multiple Dry Year Scenario	2025	2030	2035	2040	2045
Fifth Year					
Supply Totals	26,676	26,676	26,676	52,972	52,972
Demand Totals	26,676	26,676	26,676	52,972	52,972
Difference (supply minus demand)	0	0	0	0	0

Source: SBVMWD, 2021.

Table 3.19-1 demonstrates that EVWD anticipates adequate supplies for years 2025 to 2045 under multiple dry year conditions based on current land use projections. However, in the unlikely event of a drought, natural disaster such as earthquake, a regional power outage, the San Bernardino Valley Municipal Water District has prepared a water shortage contingency plan for the region (SBVMWD 2021). This plan provides specific actions that should be taken to ensure critical water needs of the region are met during a period in which water supplies are cut by 50%. Based on the future and existing capacity, and water management measures, it is anticipated there are sufficient water supplies to serve the proposed project. Therefore, impacts associated with water supplies 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. As discussed in Section 3.19(a), the project site does not have sewer service. Because sewer service is unavailable in the area, an septic system would be installed on-site. The proposed septic system would be sized to provide holding capacity for normal operations. Thus, there would be adequate capacity to treat wastewater produced from the 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. Solid waste generated in the City is collected and transported by the City's contract waste hauler, Burrtec Waste Industries (Burrtec) (City of Highland 2018). Solid waste from demolition and construction would be collected and sent to the East Valley Transfer and Recycling Materials Recovery Facility, located at 1150 and 1250 S. Tippecanoe Ave, San Bernardino, California 92408, where it is separated from recyclable materials. Solid waste is then shipped to the Mid-Valley Sanitary Landfill at 2390 N. Adler Avenue in the City of Rialto. The California Department of Resources Recycling and Recovery (CalRecycle) publishes solid waste generation rates based on land use types. According to CalRecycle, manufacturing/warehouse uses generate 1.42 pounds per 100 square feet per day (CalRecycle n.d.).

Based on these generation rates, construction of the proposed 54,330-square-foot warehouse building could generate solid waste at a rate of approximately 0.38 tons of solid waste per day.[31]

The Mid-Valley Sanitary Landfill currently has a daily permitted throughput of 7,500 tons a day and a remaining capacity of 61,219,377 cubic yards (CalRecycle 2019). As a result, solid waste generated by the proposed project would represent a nominal percentage of the collective maximum daily throughput permitted for this landfill. Therefore, impacts associated with permitted landfill capacity 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. All collection, transportation, and disposal of solid waste generated by the project would comply with all applicable federal, state, and local statutes and regulations. The City of Highland contracts Burrtec for the residential and commercial refuse collection program, which is designed to efficiently collect trash, recyclables, and green waste, and to assist the City in meeting mandated diversion goals established by the State of California. Solid waste is disposed of at the Colton, Mid-Valley, and San Timoteo landfills (City of Highland 2006).

Waste from construction activities, including demolition and construction, would comply with the City's requirement to submit and obtain an approved construction waste diversion plan to help divert construction and demolition waste from landfills, as outlined in Section 8.12.285 of the City's Municipal Code, and also to comply with mandates of CalRecycle. The City diversion requirement, as outlined in Section 16.40.400 of the City's Municipal Code, is 50%, which means that projects that involve construction and demolition (such as the proposed project), are required to divert 50% of the construction and demolition waste tonnage at a project site from landfills.

Burrtec operated five material recovery facilities in Southern California, which sort and process recyclables; the remaining waste is then taken to the nearby Mid-Valley Sanitary Landfill (Burrtec n.d.). As of the most recent capacity inspection completed in 2019, the remaining capacity at Mid-Valley Sanitary Landfill currently has a maximum permitted throughput of 7,500 tons per day and a remaining capacity of 61,219,377 cubic yards (CalRecycle 2019).

As required by existing regulations, any hazardous materials collected on the project site during demolition, construction, or operational activities would be transported and disposed of by a permitted and licensed hazardous materials service provider at a facility permitted to accept such hazardous materials. Therefore, impacts associated with permitted landfill capacity and solid waste statutes and regulations would be less than significant.

[31] This estimate does not account for diversion of recyclables from the solid waste stream and, thus, should be considered a conservative projection.

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?	☐	☐	☐	☒

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

Less-than-Significant Impact. The City of Highland has an Emergency Operations Plan to ensure the most effective and economical allocation of resources for the maximum benefit and protection of the City in times of emergency. No revisions to this plan would occur as a result of the project. The project does not propose any changes to the geometry of evacuation route roadways to the extent that these roadways' ability to serve as emergency evacuation routes would be compromised. As a result, the project would not significantly affect emergency response or evacuation activities. Therefore, impacts would be less than significant.

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 a Fire Hazard Severity Zone or a Very High Fire Hazard Severity Zone according to the Local Responsibility and State Responsibility Area maps by CAL FIRE (CAL FIRE 2007, 2008). In addition, the project site is currently partially developed and located within a developed portion of the City. Further, the project site is relatively flat and contains only limited amounts of

ornamental vegetation associated with existing landscaping and does not contain extensive amounts of vegetation or wildfire fuel. Therefore, it is not anticipated that the project, due to slope, prevailing winds, and other factors, would exacerbate wildfire risks or expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. Thus, the project would not expose people or structures to significant risk involving wildfires, exacerbate wildfire risks, or otherwise result in wildfire-related impacts. Therefore, no impacts associated with wildfire 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 a Fire Hazard Severity Zone or a Very High Fire Hazard Severity Zone according to the Local Responsibility and State Responsibility Area maps by CAL FIRE (CAL FIRE 2007, 2008). In addition, the project site is currently developed and located within a developed portion of the City that is not prone to wind hazard (City of San Bernardino 2005). The project would construct surface parking lots, new internal circulation roadways, and infrastructure for the proposed development. It is not anticipated that installation or maintenance of internal driveways would exacerbate fire risk, as the driveways would be surrounded by developed land. Further, the project site is in a predominantly developed area and would connect to existing utilities. The project would not require installation or maintenance of other associated infrastructure such as fuel breaks, power lines, or other utilities that would exacerbate fire risk. As such, the project would not expose people or structures to significant risk involving wildland fires, exacerbate wildfire risks, or otherwise result in wildfire-related impacts. Therefore, no impacts associated with wildfire 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 a Fire Hazard Severity Zone or a Very High Fire Hazard Severity Zone according to the Local Responsibility and State Responsibility Area maps by CAL FIRE (CAL FIRE 2007, 2008). As discussed in Section 3.7, Geology and Soils, and Section 3.10, Hydrology and Water Quality, the project would not result in significant risks associated with flooding, landslides, runoff, or drainage changes, and the project does not propose the use of fire (such as for a controlled vegetation burn) that would result in post-fire instability. Further, the project site is located within a developed portion of the City that is not susceptible to wildland fires, given its considerable distance from open, natural areas. Thus, the project would not expose people or structures to significant risk involving wildland fires, exacerbate wildfire risks, or otherwise result in wildfire-related impacts. Therefore, no impacts with wildfire 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?	☐	☒	☐	☐
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?	☐	☒	☐	☐

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 With Mitigation Incorporated. As described throughout this IS/MND, with the incorporation of the identified mitigation measures, the project would not degrade the quality of the environment; would not substantially reduce the habitats of fish or wildlife species; would not cause a fish or wildlife population to drop below self-sustaining levels; would not threaten to eliminate a plant or animal; and would not eliminate important examples of major periods of California history or prehistory. Therefore, impacts would be less than significant with mitigation incorporated.

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 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.

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.

The proposed project would potentially result in project related air quality, biological, cultural and tribal cultural, and geological impacts that could be potentially significant without the incorporation of mitigation. Thus, when coupled with air quality, biological, cultural and tribal cultural, and geological impacts related to the implementation of other related projects throughout the broader project area, the project would potentially result in cumulative-level impacts if these significant impacts are left unmitigated.

However, with the incorporation of mitigation identified herein, the project's impacts to air quality, biological resources, cultural and tribal cultural resources, and geological resources would be reduced to less-than-significant levels and would not considerably contribute to cumulative impacts in the greater project region. In addition, these other related projects would presumably be bound by their applicable lead agency to (1) comply with all applicable federal, state, and local regulatory requirements; and (2) incorporate all feasible mitigation measures, consistent with CEQA, to further ensure that their potentially cumulative impacts would be reduced to less-than-significant levels.

Although cumulative impacts are always possible, the project, by incorporating all mitigation measures outlined herein, would reduce its contribution to any such cumulative impacts to less than cumulatively considerable; therefore, the project would result in individually limited, but not cumulatively considerable, less-than-significant impacts with mitigation incorporated.

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

Less Than Significant With Mitigation Incorporated. As evaluated throughout this IS/MND, with incorporation of mitigation identified herein, all environmental impacts associated with the project would be reduced to less-than-significant levels. Thus, the project would not directly or indirectly cause substantial adverse effects on human beings. Impacts would be less than significant with mitigation incorporated.

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4.2 List of Preparers

Dudek

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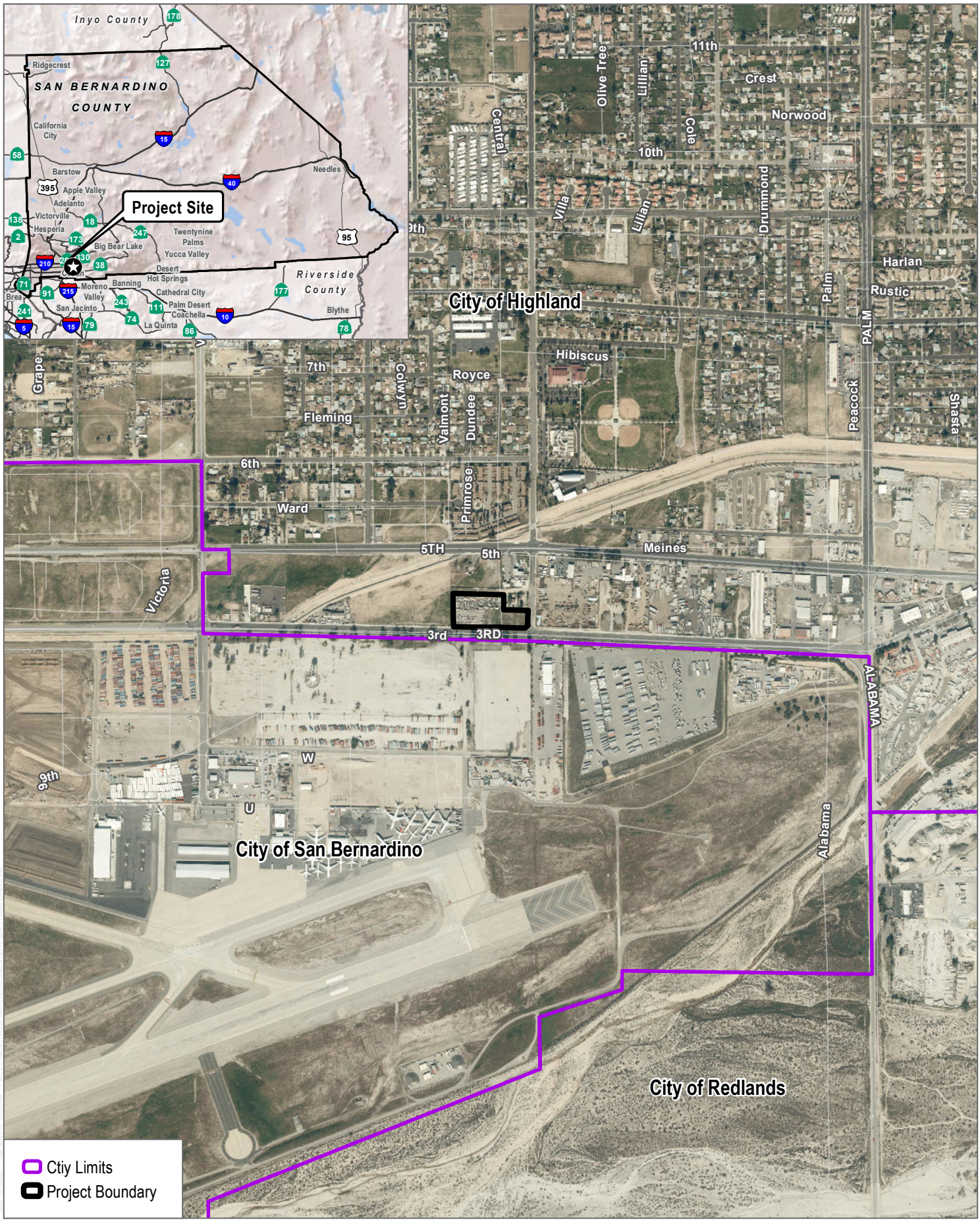

SOURCE: Esri World Imagery

DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

Third and Central Avenue Warehouse Project

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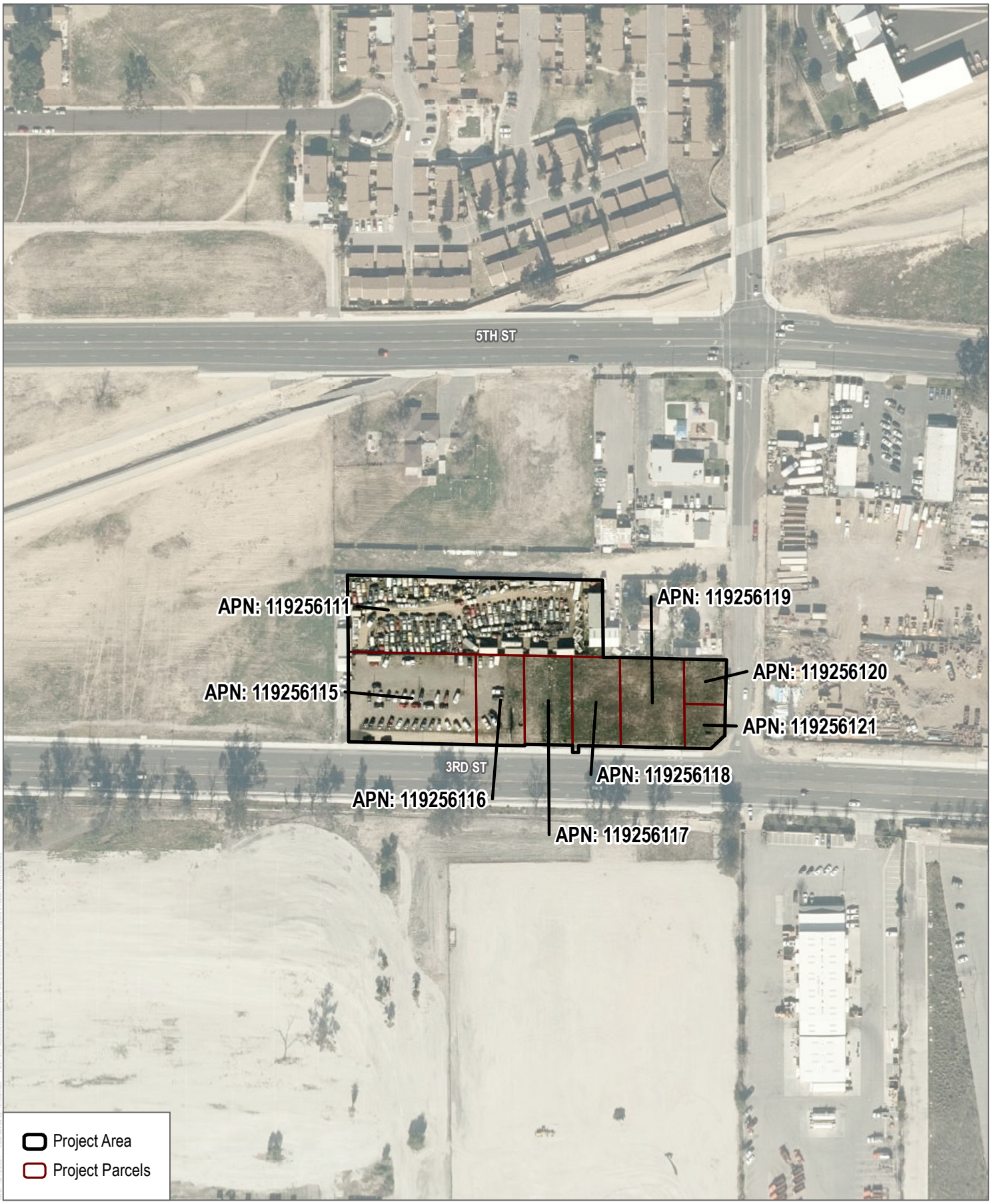

SOURCE: Esri World Imagery

DUDEK

0 100 200 Feet
0 25 50 Meters
1:2,400

FIGURE 2

Aerial Overview

Third and Central Avenue Warehouse Project

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Photo Key

Photo A: From the southwest corner of the project site, facing east. Representative of the crumbling asphalt covering most of the project site.

Photo B: From the southwest corner of the project site, facing north. One of the few areas of exposed soil on the project site. The one small structure on the site is also shown.

Photo C: From the northwest corner of the project site, facing east.

SOURCE: Dudek 2022

DUDEK

FIGURE 3A

Project Area Photos

Third and Central Avenue Warehouse Project

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Photo Key

Photo D. From the northwest corner of the project site, facing south. Planes from the San Bernardino Airport are shown in the distance.

Photo E. From the southeastern corner of the project site, facing north.

Photo F. From the southeastern corner of the project site, facing west.

SOURCE: Dudek 2022

DUDEK

FIGURE 3B

Project Area Photos

Third and Central Avenue Warehouse Project

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SOURCE: Esri World Imagery, City of San Bernadino 2012, City of Highland 2014

DUDEK

0 100 200 Feet
0 25 50 Meters
1:2,400

FIGURE 4

General Plan Land Use

Third and Central Avenue Warehouse Project

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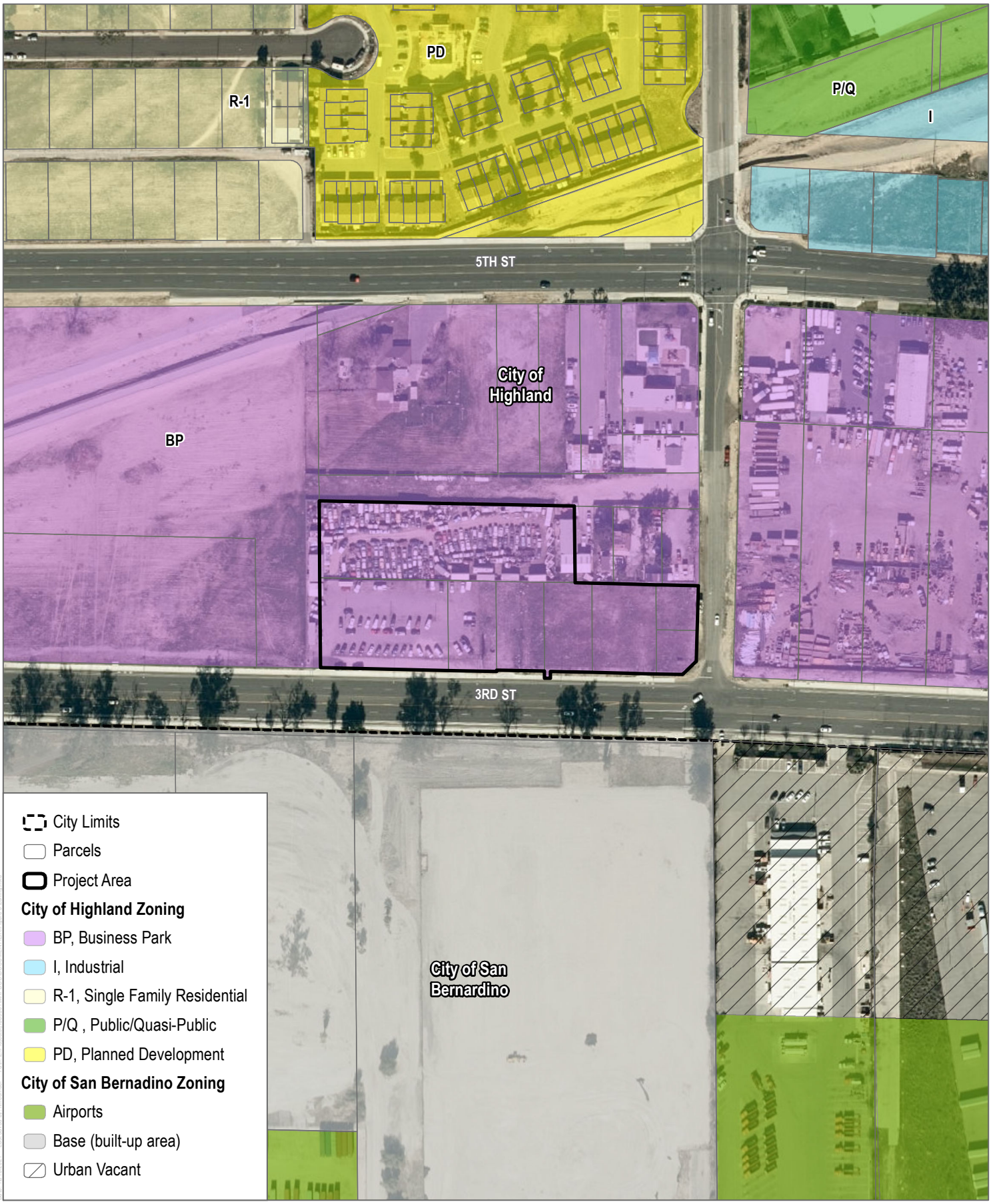

SOURCE: Esri World Imagery, City of San Bernadino 2012, City of Highland 2014

DUDEK

0 100 200 Feet
0 25 50 Meters
1:2,400

FIGURE 5

Zoning

Third and Central Avenue Warehouse Project

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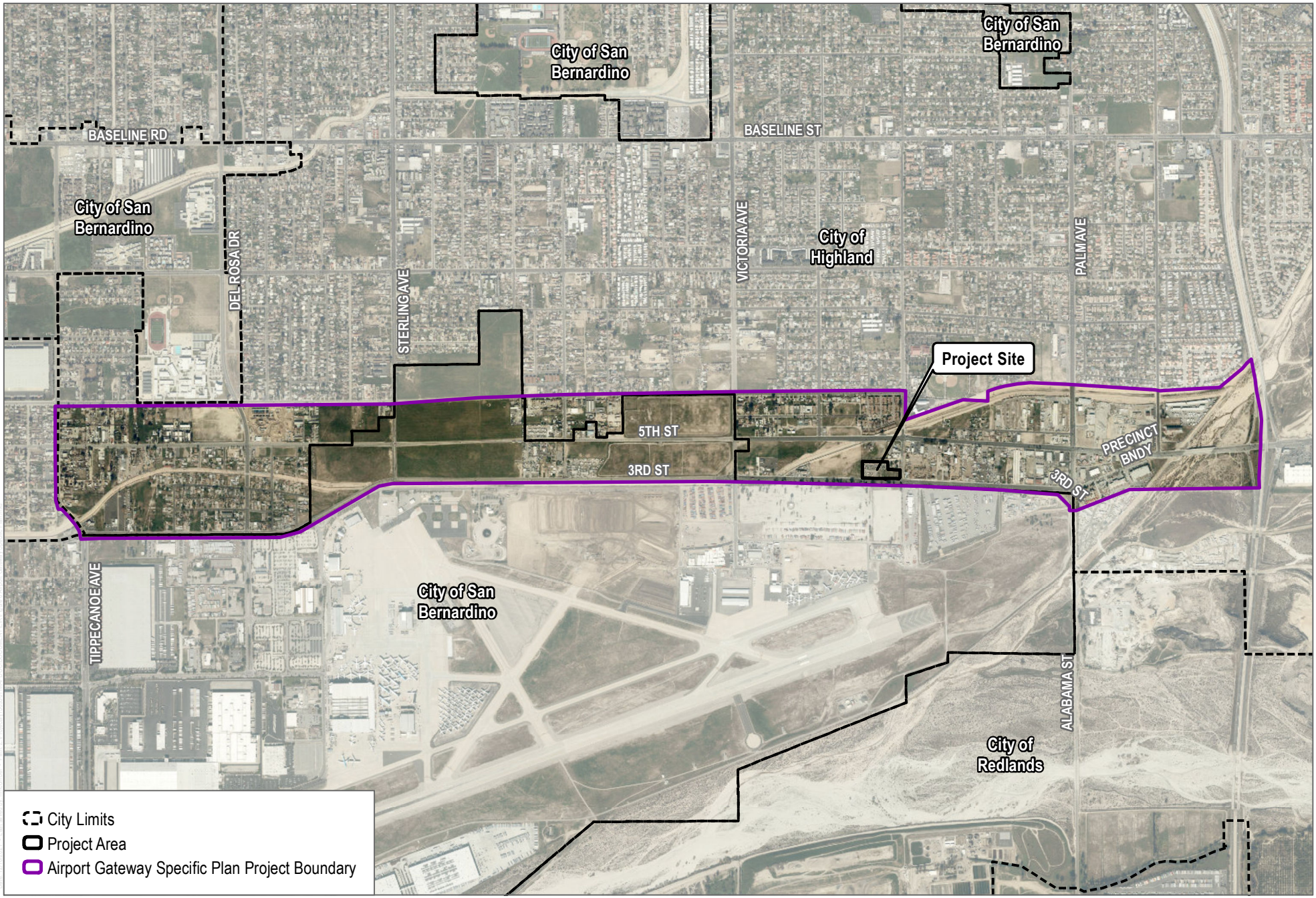

SOURCE: Esri World Imagery, City of San Bernadino 2012, City of Highland 2014

DUDEK

0 1,000 2,000 Feet

FIGURE 6

Airport Gateway Specific Plan

Third and Central Avenue Warehouse Project

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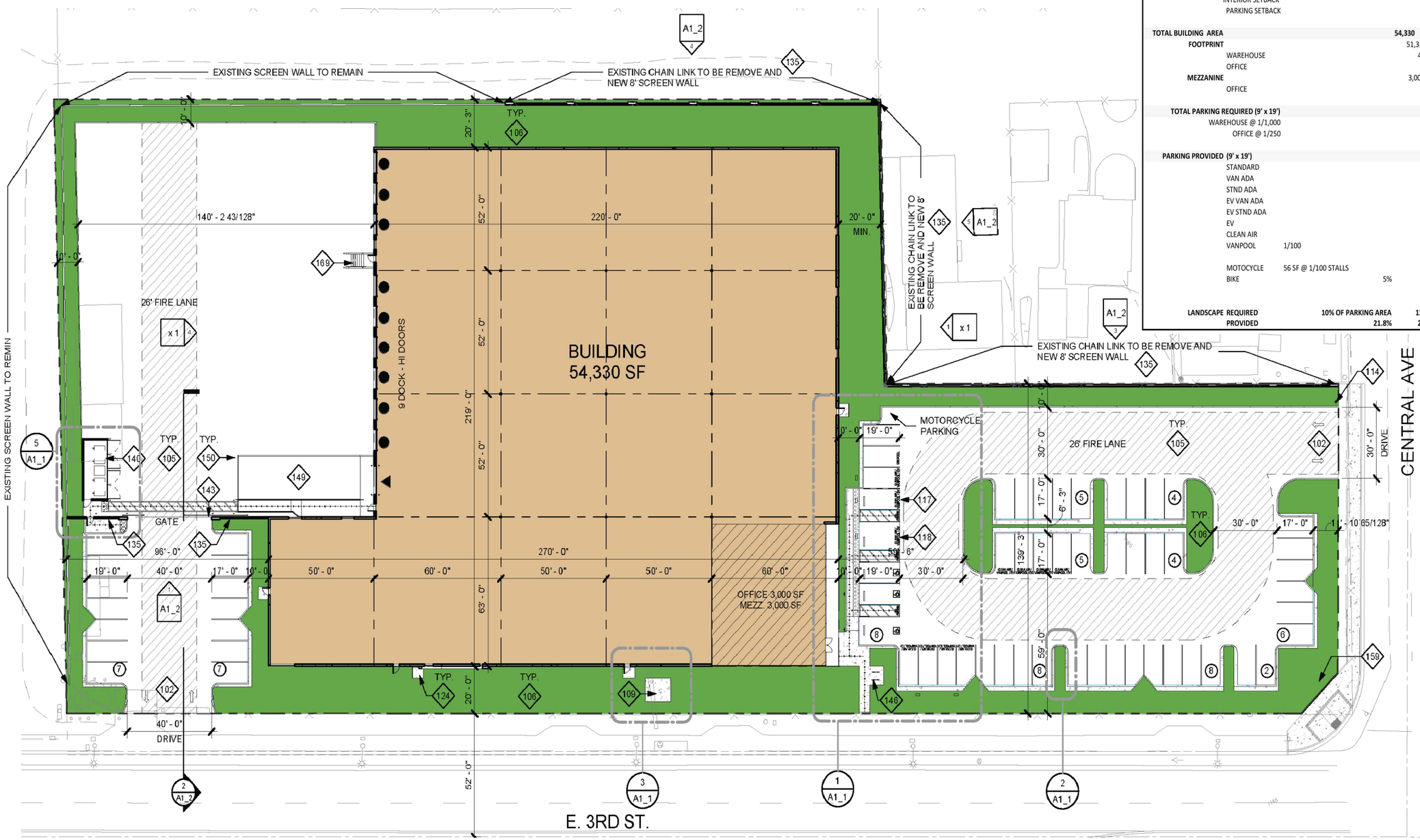
PROJECT INFORMATION	Entitlement	02.22.2022
NET SITE AREA	3.01 AC	131,012 SF
NET FAR		41.5%
MAX FAR		55.0%
ZONE:		BP (BUSINESS PARK)
CONSTRUCTION TYPE:		III-B
SETBACKS(BLDG):		
STREET SETBACK		20'
INTERIOR SETBACK		20'
PARKING SETBACK		10'
TOTAL BUILDING AREA		54,330 SF
FOOTPRINT		51,330 SF
WAREHOUSE		48,330
OFFICE		3,000
MEZZANINE		3,000 SF
OFFICE		3,000
TOTAL PARKING REQUIRED (9' x 19')		73
WAREHOUSE @ 1/1,000		49
OFFICE @ 1/250		24
PARKING PROVIDED (9' x 19')		64
STANDARD		49
VAN ADA		1
STND ADA		2
EV VAN ADA		1
EV STND ADA		1
EV		5
CLEAN AIR		4
VANPOOL	1/100	1
MOTOCYCLE	56 SF @ 1/100 STALLS	1
BIKE	5%	4 (2 RACKS)
LANDSCAPE REQUIRED	10% OF PARKING AREA	13,101 SF
PROVIDED	21.8%	28,595 SF



SOURCE: Herdman 2022

FIGURE 7

Site Plan

Third and Central Avenue Warehouse Project

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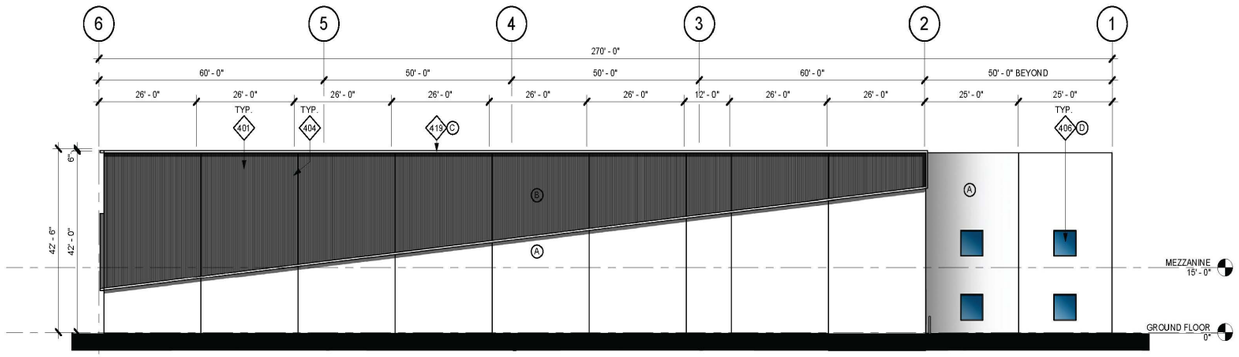
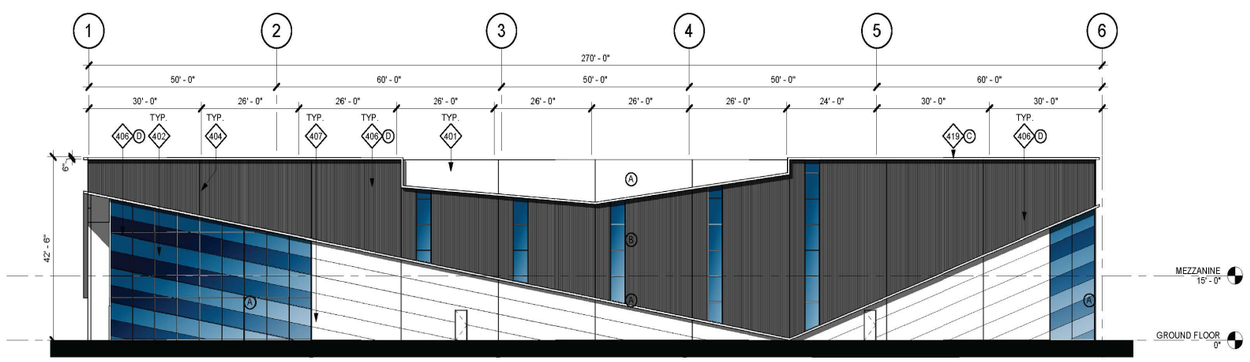
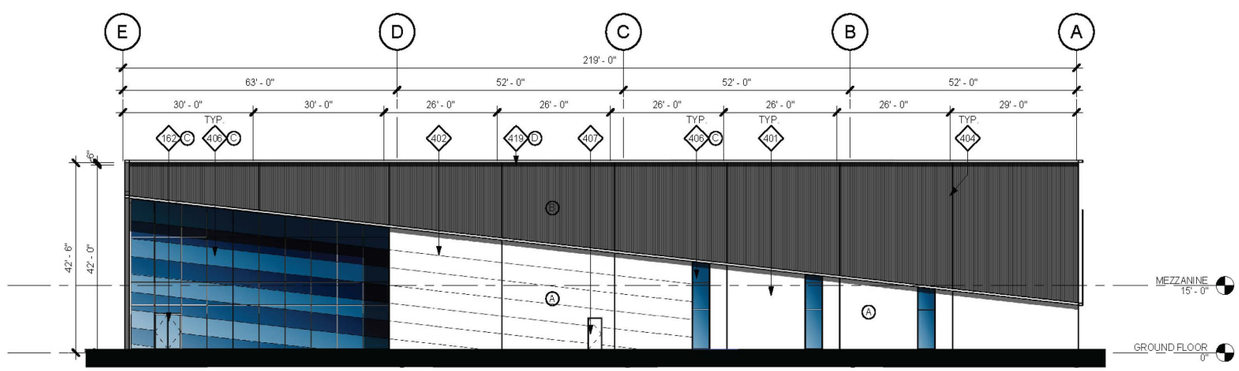


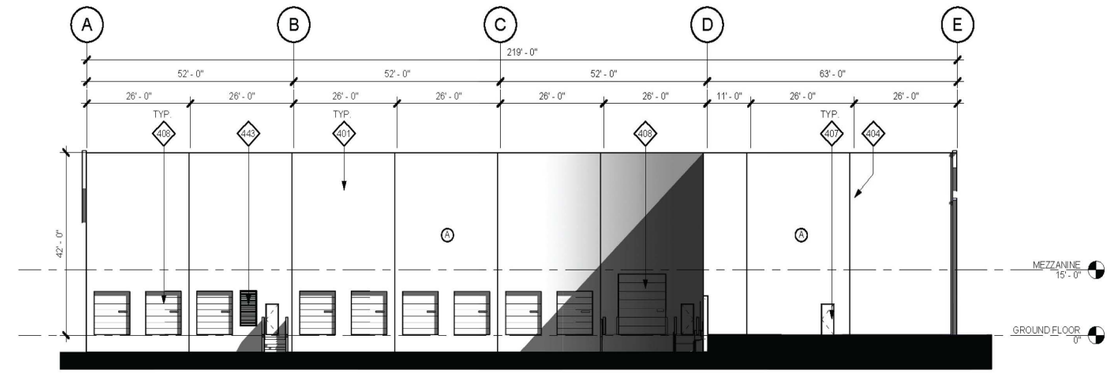
1 PROPOSED NORTH ELEVATION
1/16" = 1'-0"



2 PROPOSED SOUTH ELEVATION



3 PROPOSED EAST ELEVATION
1/16" = 1'-0"



4 PROPOSED WEST ELEVATION
1/16" = 1'-0"

KEYNOTES

162	ACCESSIBLE BUILDING ENTRANCE.
401	PAINTED CONCRETE TILT-UP WALL PANEL.
402	WALL REVEAL.
404	PANEL JOINT.
406	ALUMINUM FRAMED STOREFRONT SYSTEM.
407	PAINTED HOLLOW METAL PEDESTRIAN DOOR.
408	STEEL SECTIONAL OVERHEAD DOOR.
419	DECORATIVE SOLID BROW WRAPPED IN ALUMINUM PANELS.
443	4'-0"w x 8'-0"h PAINTED STEEL WALL LOUVER. TOP @ +10'-0".

EXTERIOR WALL COLOR LEGEND & NOTES

(A) WHITE EXTERIOR PAINT
COLOR: SW7005 PURE WHITE

(B) FORMLINER
COLOR: SW 7674 PEPPERCORN

(C) ACM PANEL COLOR:
CLEAR ANODIZED ALUMINUM

(D) EXTERIOR STOREFRONT FRAMING COLOR:
CLEAR ANODIZED ALUMINUM

NOTES:

1. PAINT MAN DOORS, STAIR & RAMP GUARD WALLS, GUARD RAILS, DOWN SPOUTS, & LOUVERS TO MATCH ADJACENT BUILDING WALL COLOR, U.O.N.
2. U.O.N., EXTERIOR SIDE OF TRUCK DOORS TO BE PRE-FINISHED WITH MANUFACTURER'S WHITE. INTERIOR SIDE TO BE PRE-FINISHED WITH MANUFACTURER'S LIGHT GRAY.
3. POWER WASH EXTERIOR CONCRETE WALLS PRIOR TO PAINTING TO REMOVE ALL CHEMICALS AND DIRT THAT WILL IMPEDE THE PRIMER COAT FROM ADHERING TO THE WALLS.
4. PAINT EXTERIOR WALLS w/ 1- COAT SPRAYED AND BACK ROLLED ACRYLIC FLAT PRIMER AND 2-COATS SPRAYED-ON FLAT FINISH IN THE FINAL WALL COLOR. ALL PAINTS TO BE AS SPECIFIED BY THE MANUFACTURER FOR CONCRETE TILT UP WALL PANELS. FINISHED JOB SHALL BE SMOOTH AND FREE OF LAPPING AND OR STREAKING, REGARDLESS OF THE COLOR.
5. EXCEPT WHERE NOTED OTHERWISE ON THE PLANS ALL PANEL JOINTS SHALL BE CAULKED PER DETAIL 1/AD4.1.
6. PAINT CONCRETE BEHIND ANY OPEN TRELLIS WORK THE COLOR OF THE ADJACENT WALL.
7. @ SOLID BROWS WITH GLAZING DIRECTLY ABOVE OR BELOW, PAINT THE EXPOSED WALL CHAMFER JUST ABOVE OR BELOW THE BROW TO MATCH THE BROW COLOR.

GLAZING LEGEND & NOTES

STOREFRONT FRAMING:
U.O.N @ VISION SYSTEM, MIN 2"x4 1/2" OFFSET SYSTEM. U.O.N. @ SPANDREL SYSTEM, 2"x1 3/4" OFFSET SYSTEM. STOREFRONT SYSTEM TO BE DESIGN BUILD BY THE GENERAL CONTRACTOR . DESIGN SHALL COMPLY WITH ALL RELEVANT CODE & WIND LOADING REQUIREMENTS.

VISION SYSTEM GLAZING:
FOR EXTERIOR VISION GLAZING USE 1" INSULATED GLASS CONSISTING OF AN OUTER LAYER OF 1/4" VISTACOOL AND AN INNER LAYER OF 1/4" SOLARBAN 60. FOR INTERIOR GLAZING USE 1/2" CLEAR GLASS

LIGHT SHADE VISION SYSTEM GLAZING:
FOR EXTERIOR VISION GLAZING USE 1" INSULATED GLASS CONSISTING OF AN OUTER LAYER OF 1/4" VISTACOOL AND AN INNER LAYER OF 1/4" SOLARBAN 60. FOR INTERIOR GLAZING USE 1/2" CLEAR GLASS

LIGHT SHADE SPANDREL SYSTEM GLAZING:
FOR EXTERIOR SPANDREL GLAZING USE 1/4" VISTACOOL. BACK PAINTING OF GLASS NOT REQUIRED.

SPANDREL SYSTEM GLAZING:
FOR EXTERIOR SPANDREL GLAZING USE 1/4" VISTACOOL. BACK PAINTING OF GLASS NOT REQUIRED.

NOTES:

1. FOR GLASS AND MULLION COLORS, SEE EXTERIOR COLORS, LEGEND & NOTES, THIS SHEET.
2. PROVIDE TEMPERED GLASS @ THE FOLLOWING:
   A. ALL SPANDREL SYSTEM GLAZING IN FRONT OF CONCRETE WALL PANELS
   B. ALL GLAZING WITHIN 18" OF AN ADJACENT WALKING SURFACE.
   C. ALL GLAZING WITH 24" OF ANY PORTION OF A DOOR.
3. @ SPANDREL SYSTEM GLAZING IN FRONT OF CONCRETE WALL PANELS, PROVIDE 1" DIA. VENTILLATION HOLES IN THE CONCRETE A MAX OF 5'-0" O.C. CONTRACTOR TO PROVIDE A SMOOTH FINISH ON THE GLASS FACING CONCRETE SURFACES AND TO PAINT THEM IN A COLOR SELECTED BY THE ARCHITECT.
4. @ SPANDREL SYSTEM GLAZING NOT IN FRONT OF A CONCRETE WALL PANEL, PROVIDE TENCATE MIRAFI 140N FILTER FABRIC SHADE CLOTH.

SOURCE: Herdman 2022

DUDEK

FIGURE 8

Concpetual Elevations

Third and Central Avenue Warehouse Project

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SOURCE: Herdman 2022

DUDEK

FIGURE 9

Conceptual Rendering

Third and Central Avenue Warehouse Project

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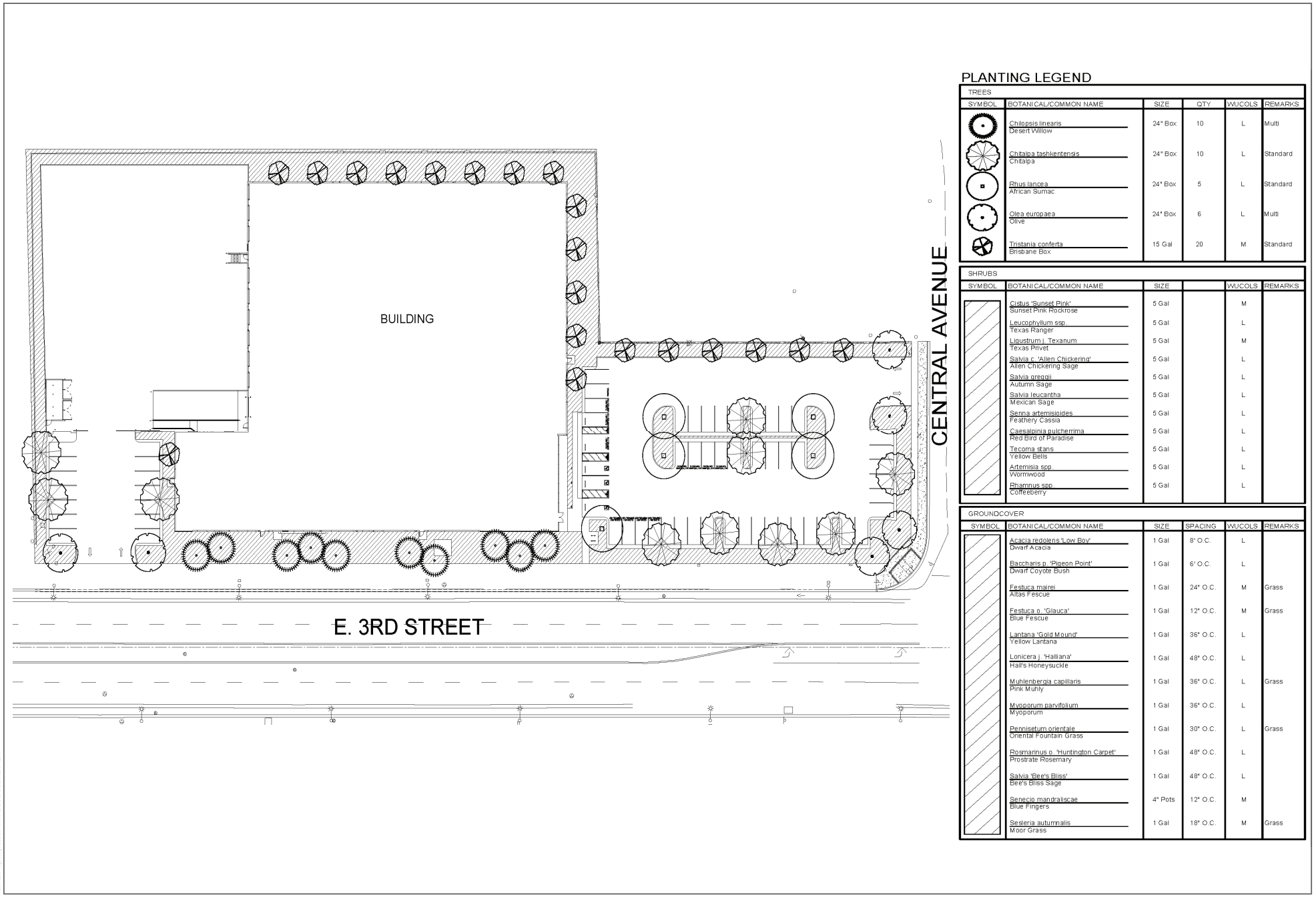

PLANTING LEGEND

TREES

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	WUCOLS	REMARKS
	Chilopsis linearis Desert Willow	24" Box	10	L	Multi
	Chitalpa tashkentensis Chitalpa	24" Box	10	L	Standard
	Rhus lancea African Sumac	24" Box	5	L	Standard
	Olea europaea Olive	24" Box	6	L	Multi
	Tristania conferta Brisbane Box	15 Gal	20	M	Standard

SHRUBS

SYMBOL	BOTANICAL/COMMON NAME	SIZE		WUCOLS	REMARKS
	Cistus 'Sunset Pink' Sunset Pink Rockrose	5 Gal		M	
	Leucophyllum ssp. Texas Ranger	5 Gal		L	
	Ligustrum j. Texanum Texas Privet	5 Gal		M	
	Salvia c. 'Allen Chickering' Allen Chickering Sage	5 Gal		L	
	Salvia greggii Autumn Sage	5 Gal		L	
	Salvia leucantha Mexican Sage	5 Gal		L	
	Senna artemisioides Feathery Cassia	5 Gal		L	
	Caesalpinia pulcherrima Red Bird of Paradise	5 Gal		L	
	Tecoma stans Yellow Bells	5 Gal		L	
	Artemisia spp. Wormwood	5 Gal		L	
	Rhamnus spp. Coffeeberry	5 Gal		L	

GROUNDCOVER

SYMBOL	BOTANICAL/COMMON NAME	SIZE	SPACING	WUCOLS	REMARKS
	Acacia redolens 'Low Boy' Dwarf Acacia	1 Gal	8' O.C.	L	
	Baccharis p. 'Pigeon Point' Dwarf Coyote Bush	1 Gal	6' O.C.	L	
	Festuca mairei Atlas Fescue	1 Gal	24" O.C.	M	Grass
	Festuca o. 'Glauca' Blue Fescue	1 Gal	12" O.C.	M	Grass
	Lantana 'Gold Mound' Yellow Lantana	1 Gal	36" O.C.	L	
	Lonicera j. 'Halliana' Hall's Honeysuckle	1 Gal	48" O.C.	L	
	Muhlenbergia capillaris Pink Muhly	1 Gal	36" O.C.	L	Grass
	Myoporum parvifolium Myoporum	1 Gal	36" O.C.	L	
	Pennisetum orientale Oriental Fountain Grass	1 Gal	30" O.C.	L	Grass
	Rosmarinus o. 'Huntington Carpet' Prostrate Rosemary	1 Gal	48" O.C.	L	
	Salvia 'Bee's Bliss' Bee's Bliss Sage	1 Gal	48" O.C.	L	
	Senecio mandraliscae Blue Fingers	4" Pots	12" O.C.	M	
	Sesleria autumnalis Moor Grass	1 Gal	18" O.C.	M	Grass

SOURCE: Hunter Landscape 2022

DUDEK

FIGURE 10

Landscaping Plan

Third and Central Avenue Warehouse Project

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SOURCE: Bing Maps (Accessed 2021)

DUDEK

0 55 110 Feet
0 15 30 Meters
1:1,359

FIGURE 11

Biological Resources

Third and Central Avenue Warehouse Project

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SOURCE: Esri World Imagery Basemap

DUDEK

0 165 330 Feet

FIGURE 12

Noise Measurement Locations

Third and Central Avenue Warehouse Project

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Appendix A-1

Air Quality, Greenhouse Gas Emission, and Energy Emissions Modeling Inputs and Outputs

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Winter LST Mitigated	196
Electric Lift Vehicle Calculations	228

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	16.60
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	16.60
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1597	1.4590	1.4540	2.9100e-003	0.1535	0.0699	0.2233	0.0565	0.0654	0.1219	0.0000	257.6352	257.6352	0.0511	5.8500e-003	260.6576
2023	0.3064	0.4014	0.5043	9.6000e-004	0.0187	0.0188	0.0374	5.0300e-003	0.0176	0.0227	0.0000	84.6007	84.6007	0.0164	1.6300e-003	85.4972
Maximum	**0.3064**	**1.4590**	**1.4540**	**2.9100e-003**	**0.1535**	**0.0699**	**0.2233**	**0.0565**	**0.0654**	**0.1219**	**0.0000**	**257.6352**	**257.6352**	**0.0511**	**5.8500e-003**	**260.6576**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1597	1.4590	1.4540	2.9100e-003	0.0970	0.0699	0.1668	0.0330	0.0654	0.0984	0.0000	257.6350	257.6350	0.0511	5.8500e-003	260.6574
2023	0.3064	0.4014	0.5043	9.6000e-004	0.0187	0.0188	0.0374	5.0300e-003	0.0176	0.0227	0.0000	84.6006	84.6006	0.0164	1.6300e-003	85.4971
Maximum	**0.3064**	**1.4590**	**1.4540**	**2.9100e-003**	**0.0970**	**0.0699**	**0.1668**	**0.0330**	**0.0654**	**0.0984**	**0.0000**	**257.6350**	**257.6350**	**0.0511**	**5.8500e-003**	**260.6574**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**32.81**	**0.00**	**21.66**	**38.25**	**0.00**	**16.27**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.7949	0.7949
2	**9-1-2022**	**11-30-2022**	0.6097	0.6097
3	**12-1-2022**	**2-28-2023**	0.5591	0.5591
4	**3-1-2023**	**5-31-2023**	0.3624	0.3624
		Highest	0.7949	0.7949

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	0.0343	0.8363	0.6085	5.5900e-003	0.3020	7.0000e-003	0.3090	0.0827	6.6700e-003	0.0893	0.0000	541.9341	541.9341	0.0211	0.0649	561.7976
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2992**	**1.3525**	**1.4494**	**6.8800e-003**	**0.3020**	**0.0238**	**0.3259**	**0.0827**	**0.0222**	**0.1048**	**10.3769**	**712.7935**	**723.1704**	**3.5279**	**0.0752**	**833.7807**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	0.0343	0.8363	0.6085	5.5900e-003	0.3020	7.0000e-003	0.3090	0.0827	6.6700e-003	0.0893	0.0000	541.9341	541.9341	0.0211	0.0649	561.7976
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2992**	**1.3525**	**1.4494**	**6.8800e-003**	**0.3020**	**0.0238**	**0.3259**	**0.0827**	**0.0222**	**0.1048**	**10.3769**	**712.7935**	**723.1704**	**3.5279**	**0.0752**	**833.7807**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	
5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	3.8200e-003	0.0000	3.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0252**	**0.0124**	**0.0377**	**3.8200e-003**	**0.0116**	**0.0154**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	0.0192	4.4000e-003	7.0000e-005	2.0100e-003	1.5000e-004	2.1700e-003	5.5000e-004	1.5000e-004	7.0000e-004	0.0000	7.0471	7.0471	3.8000e-004	1.1200e-003	7.3900
Vendor	7.0000e-005	1.9500e-003	6.5000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7465	0.7465	2.0000e-005	1.1000e-004	0.7794
Worker	5.4000e-004	4.3000e-004	5.6700e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4194	1.4194	4.0000e-005	4.0000e-005	1.4317
Total	**1.1000e-003**	**0.0216**	**0.0107**	**1.0000e-004**	**4.0200e-003**	**1.8000e-004**	**4.2100e-003**	**1.0900e-003**	**1.8000e-004**	**1.2700e-003**	**0.0000**	**9.2130**	**9.2130**	**4.4000e-004**	**1.2700e-003**	**9.6011**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0114	0.0000	0.0114	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0114**	**0.0124**	**0.0238**	**1.7200e-003**	**0.0116**	**0.0133**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.9000e-004	0.0192	4.4000e-003	7.0000e-005	2.0100e-003	1.5000e-004	2.1700e-003	5.5000e-004	1.5000e-004	7.0000e-004	0.0000	7.0471	7.0471	3.8000e-004	1.1200e-003	7.3900
Vendor	7.0000e-005	1.9500e-003	6.5000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7465	0.7465	2.0000e-005	1.1000e-004	0.7794
Worker	5.4000e-004	4.3000e-004	5.6700e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4194	1.4194	4.0000e-005	4.0000e-005	1.4317
Total	**1.1000e-003**	**0.0216**	**0.0107**	**1.0000e-004**	**4.0200e-003**	**1.8000e-004**	**4.2100e-003**	**1.0900e-003**	**1.8000e-004**	**1.2700e-003**	**0.0000**	**9.2130**	**9.2130**	**4.4000e-004**	**1.2700e-003**	**9.6011**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0491**	**4.0300e-003**	**0.0532**	**0.0253**	**3.7100e-003**	**0.0290**	**0.0000**	**8.3599**	**8.3599**	**2.7000e-003**	**0.0000**	**8.4274**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.9000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1866	0.1866	1.0000e-005	3.0000e-005	0.1949
Worker	1.5000e-004	1.2000e-004	1.5900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3992	0.3992	1.0000e-005	1.0000e-005	0.4027
Total	**1.7000e-004**	**6.1000e-004**	**1.7500e-003**	**0.0000**	**5.5000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.5858**	**0.5858**	**2.0000e-005**	**4.0000e-005**	**0.5975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0221**	**4.0300e-003**	**0.0261**	**0.0114**	**3.7100e-003**	**0.0151**	**0.0000**	**8.3598**	**8.3598**	**2.7000e-003**	**0.0000**	**8.4274**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.9000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1866	0.1866	1.0000e-005	3.0000e-005	0.1949
Worker	1.5000e-004	1.2000e-004	1.5900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3992	0.3992	1.0000e-005	1.0000e-005	0.4027
Total	**1.7000e-004**	**6.1000e-004**	**1.7500e-003**	**0.0000**	**5.5000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.5858**	**0.5858**	**2.0000e-005**	**4.0000e-005**	**0.5975**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0283**	**3.7600e-003**	**0.0321**	**0.0137**	**3.4600e-003**	**0.0172**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.9700e-003	4.5000e-004	1.0000e-005	2.1000e-004	2.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7228	0.7228	4.0000e-005	1.1000e-004	0.7580
Vendor	3.0000e-005	7.8000e-004	2.6000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.2986	0.2986	1.0000e-005	4.0000e-005	0.3118
Worker	2.1000e-004	1.7000e-004	2.2700e-003	1.0000e-005	7.0000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5677	0.5677	2.0000e-005	2.0000e-005	0.5727
Total	**2.9000e-004**	**2.9200e-003**	**2.9800e-003**	**2.0000e-005**	**1.0100e-003**	**3.0000e-005**	**1.0400e-003**	**2.8000e-004**	**2.0000e-005**	**3.0000e-004**	**0.0000**	**1.5891**	**1.5891**	**7.0000e-005**	**1.7000e-004**	**1.6424**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0128**	**3.7600e-003**	**0.0165**	**6.1700e-003**	**3.4600e-003**	**9.6300e-003**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.9700e-003	4.5000e-004	1.0000e-005	2.1000e-004	2.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.7228	0.7228	4.0000e-005	1.1000e-004	0.7580
Vendor	3.0000e-005	7.8000e-004	2.6000e-004	0.0000	1.0000e-004	1.0000e-005	1.1000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.2986	0.2986	1.0000e-005	4.0000e-005	0.3118
Worker	2.1000e-004	1.7000e-004	2.2700e-003	1.0000e-005	7.0000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5677	0.5677	2.0000e-005	2.0000e-005	0.5727
Total	**2.9000e-004**	**2.9200e-003**	**2.9800e-003**	**2.0000e-005**	**1.0100e-003**	**3.0000e-005**	**1.0400e-003**	**2.8000e-004**	**2.0000e-005**	**3.0000e-004**	**0.0000**	**1.5891**	**1.5891**	**7.0000e-005**	**1.7000e-004**	**1.6424**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0352	139.0352	0.0333	0.0000	139.8679
Total	**0.1024**	**0.9369**	**0.9818**	**1.6200e-003**		**0.0485**	**0.0485**		**0.0457**	**0.0457**	**0.0000**	**139.0352**	**139.0352**	**0.0333**	**0.0000**	**139.8679**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3800e-003	0.0645	0.0214	2.5000e-004	8.3200e-003	6.4000e-004	8.9700e-003	2.4000e-003	6.2000e-004	3.0200e-003	0.0000	24.6338	24.6338	8.2000e-004	3.5700e-003	25.7196
Worker	0.0113	9.1100e-003	0.1190	3.3000e-004	0.0369	2.2000e-004	0.0371	9.7900e-003	2.1000e-004	0.0100	0.0000	29.8064	29.8064	8.3000e-004	8.0000e-004	30.0666
Total	**0.0137**	**0.0736**	**0.1404**	**5.8000e-004**	**0.0452**	**8.6000e-004**	**0.0461**	**0.0122**	**8.3000e-004**	**0.0130**	**0.0000**	**54.4402**	**54.4402**	**1.6500e-003**	**4.3700e-003**	**55.7862**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0350	139.0350	0.0333	0.0000	139.8677
Total	**0.1024**	**0.9369**	**0.9818**	**1.6200e-003**		**0.0485**	**0.0485**		**0.0457**	**0.0457**	**0.0000**	**139.0350**	**139.0350**	**0.0333**	**0.0000**	**139.8677**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3800e-003	0.0645	0.0214	2.5000e-004	8.3200e-003	6.4000e-004	8.9700e-003	2.4000e-003	6.2000e-004	3.0200e-003	0.0000	24.6338	24.6338	8.2000e-004	3.5700e-003	25.7196
Worker	0.0113	9.1100e-003	0.1190	3.3000e-004	0.0369	2.2000e-004	0.0371	9.7900e-003	2.1000e-004	0.0100	0.0000	29.8064	29.8064	8.3000e-004	8.0000e-004	30.0666
Total	**0.0137**	**0.0736**	**0.1404**	**5.8000e-004**	**0.0452**	**8.6000e-004**	**0.0461**	**0.0122**	**8.3000e-004**	**0.0130**	**0.0000**	**54.4402**	**54.4402**	**1.6500e-003**	**4.3700e-003**	**55.7862**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367
Total	**0.0315**	**0.2877**	**0.3249**	**5.4000e-004**		**0.0140**	**0.0140**		**0.0132**	**0.0132**	**0.0000**	**46.3610**	**46.3610**	**0.0110**	**0.0000**	**46.6367**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0168	6.3800e-003	8.0000e-005	2.7700e-003	9.0000e-005	2.8700e-003	8.0000e-004	9.0000e-005	8.9000e-004	0.0000	7.8308	7.8308	2.6000e-004	1.1300e-003	8.1754
Worker	3.4900e-003	2.6800e-003	0.0366	1.0000e-004	0.0123	7.0000e-005	0.0124	3.2600e-003	6.0000e-005	3.3300e-003	0.0000	9.6162	9.6162	2.5000e-004	2.5000e-004	9.6961
Total	**3.9700e-003**	**0.0194**	**0.0429**	**1.8000e-004**	**0.0151**	**1.6000e-004**	**0.0152**	**4.0600e-003**	**1.5000e-004**	**4.2200e-003**	**0.0000**	**17.4469**	**17.4469**	**5.1000e-004**	**1.3800e-003**	**17.8715**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366
Total	**0.0315**	**0.2877**	**0.3249**	**5.4000e-004**		**0.0140**	**0.0140**		**0.0132**	**0.0132**	**0.0000**	**46.3609**	**46.3609**	**0.0110**	**0.0000**	**46.6366**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	0.0168	6.3800e-003	8.0000e-005	2.7700e-003	9.0000e-005	2.8700e-003	8.0000e-004	9.0000e-005	8.9000e-004	0.0000	7.8308	7.8308	2.6000e-004	1.1300e-003	8.1754
Worker	3.4900e-003	2.6800e-003	0.0366	1.0000e-004	0.0123	7.0000e-005	0.0124	3.2600e-003	6.0000e-005	3.3300e-003	0.0000	9.6162	9.6162	2.5000e-004	2.5000e-004	9.6961
Total	**3.9700e-003**	**0.0194**	**0.0429**	**1.8000e-004**	**0.0151**	**1.6000e-004**	**0.0152**	**4.0600e-003**	**1.5000e-004**	**4.2200e-003**	**0.0000**	**17.4469**	**17.4469**	**5.1000e-004**	**1.3800e-003**	**17.8715**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7100e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3700e-003	5.2000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6407	0.6407	2.0000e-005	9.0000e-005	0.6689
Worker	5.6000e-004	4.3000e-004	5.8700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5455	1.5455	4.0000e-005	4.0000e-005	1.5583
Total	**6.0000e-004**	**1.8000e-003**	**6.3900e-003**	**3.0000e-005**	**2.2000e-003**	**2.0000e-005**	**2.2200e-003**	**5.9000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**2.1862**	**2.1862**	**6.0000e-005**	**1.3000e-004**	**2.2272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7100e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3700e-003	5.2000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6407	0.6407	2.0000e-005	9.0000e-005	0.6689
Worker	5.6000e-004	4.3000e-004	5.8700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5455	1.5455	4.0000e-005	4.0000e-005	1.5583
Total	**6.0000e-004**	**1.8000e-003**	**6.3900e-003**	**3.0000e-005**	**2.2000e-003**	**2.0000e-005**	**2.2200e-003**	**5.9000e-004**	**2.0000e-005**	**6.0000e-004**	**0.0000**	**2.1862**	**2.1862**	**6.0000e-005**	**1.3000e-004**	**2.2272**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2603**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3700e-003	5.2000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6407	0.6407	2.0000e-005	9.0000e-005	0.6689
Worker	3.4000e-004	2.6000e-004	3.5200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9273	0.9273	2.0000e-005	2.0000e-005	0.9350
Total	**3.8000e-004**	**1.6300e-003**	**4.0400e-003**	**2.0000e-005**	**1.4100e-003**	**2.0000e-005**	**1.4200e-003**	**3.8000e-004**	**2.0000e-005**	**3.9000e-004**	**0.0000**	**1.5680**	**1.5680**	**4.0000e-005**	**1.1000e-004**	**1.6039**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2603**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.3700e-003	5.2000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6407	0.6407	2.0000e-005	9.0000e-005	0.6689
Worker	3.4000e-004	2.6000e-004	3.5200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9273	0.9273	2.0000e-005	2.0000e-005	0.9350
Total	**3.8000e-004**	**1.6300e-003**	**4.0400e-003**	**2.0000e-005**	**1.4100e-003**	**2.0000e-005**	**1.4200e-003**	**3.8000e-004**	**2.0000e-005**	**3.9000e-004**	**0.0000**	**1.5680**	**1.5680**	**4.0000e-005**	**1.1000e-004**	**1.6039**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0343	0.8363	0.6085	5.5900e-003	0.3020	7.0000e-003	0.3090	0.0827	6.6700e-003	0.0893	0.0000	541.9341	541.9341	0.0211	0.0649	561.7976
Unmitigated	0.0343	0.8363	0.6085	5.5900e-003	0.3020	7.0000e-003	0.3090	0.0827	6.6700e-003	0.0893	0.0000	541.9341	541.9341	0.0211	0.0649	561.7976

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	394,494	394,494
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	353,036	353,036
Total	96.00	96.00	96.00	747,530	747,530

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	16.60	16.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

3rd and Central Warehouse - South Coast AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
NaturalGas Mitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621
NaturalGas Unmitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Unmitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5566	2.8556	9.9800e-003	104.9200
Unmitigated	30.5566	2.8556	9.9800e-003	104.9200

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.3769	0.6133	0.0000	25.7083
Unmitigated	10.3769	0.6133	0.0000	25.7083

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Rough Terrain Forklifts	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Total	**0.0386**	**0.5108**	**0.8349**	**1.2600e-003**		**0.0164**	**0.0164**		**0.0151**	**0.0151**	**0.0000**	**110.5297**	**110.5297**	**0.0358**	**0.0000**	**111.4234**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	16.60
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	16.60
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2394	33.3132	21.7040	0.0483	19.8838	1.6157	21.4995	10.1632	1.4865	11.6497	0.0000	4,769.3477	4,769.3477	1.1997	0.1391	4,838.3410
2023	28.9665	15.3035	18.5228	0.0364	0.7668	0.7079	1.4747	0.2066	0.6661	0.8727	0.0000	3,540.6498	3,540.6498	0.6358	0.0751	3,578.9214
Maximum	**28.9665**	**33.3132**	**21.7040**	**0.0483**	**19.8838**	**1.6157**	**21.4995**	**10.1632**	**1.4865**	**11.6497**	**0.0000**	**4,769.3477**	**4,769.3477**	**1.1997**	**0.1391**	**4,838.3410**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2394	33.3132	21.7040	0.0483	9.0725	1.6157	10.6882	4.6068	1.4865	6.0934	0.0000	4,769.3477	4,769.3477	1.1997	0.1391	4,838.3410
2023	28.9665	15.3035	18.5228	0.0364	0.7668	0.7079	1.4747	0.2066	0.6661	0.8727	0.0000	3,540.6498	3,540.6498	0.6358	0.0751	3,578.9214
Maximum	**28.9665**	**33.3132**	**21.7040**	**0.0483**	**9.0725**	**1.6157**	**10.6882**	**4.6068**	**1.4865**	**6.0934**	**0.0000**	**4,769.3477**	**4,769.3477**	**1.1997**	**0.1391**	**4,838.3410**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**52.35**	**0.00**	**47.06**	**53.58**	**0.00**	**44.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1986	4.3478	3.5112	0.0311	1.6884	0.0385	1.7269	0.4612	0.0367	0.4979		3,317.5285	3,317.5285	0.1278	0.3919	3,437.5076
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.6506**	**7.1760**	**8.1226**	**0.0382**	**1.6884**	**0.1307**	**1.8191**	**0.4612**	**0.1217**	**0.5829**	**0.0000**	**4,020.3601**	**4,020.3601**	**0.3445**	**0.3925**	**4,145.9479**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1986	4.3478	3.5112	0.0311	1.6884	0.0385	1.7269	0.4612	0.0367	0.4979		3,317.5285	3,317.5285	0.1278	0.3919	3,437.5076
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.6506**	**7.1760**	**8.1226**	**0.0382**	**1.6884**	**0.1307**	**1.8191**	**0.4612**	**0.1217**	**0.5829**	**0.0000**	**4,020.3601**	**4,020.3601**	**0.3445**	**0.3925**	**4,145.9479**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.8255	0.4363	7.0800e-003	0.2047	0.0153	0.2199	0.0561	0.0146	0.0707		776.6936	776.6936	0.0417	0.1233	814.4795
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0551	0.0388	0.6099	1.6200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		163.6052	163.6052	4.2800e-003	3.9100e-003	164.8785
Total	**0.1118**	**2.0503**	**1.1099**	**9.4600e-003**	**0.4091**	**0.0183**	**0.4274**	**0.1109**	**0.0174**	**0.1284**		**1,022.5665**	**1,022.5665**	**0.0488**	**0.1391**	**1,065.2489**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**1.1348**	**1.2427**	**2.3775**	**0.1718**	**1.1553**	**1.3271**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0494	1.8255	0.4363	7.0800e-003	0.2047	0.0153	0.2199	0.0561	0.0146	0.0707		776.6936	776.6936	0.0417	0.1233	814.4795
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0551	0.0388	0.6099	1.6200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		163.6052	163.6052	4.2800e-003	3.9100e-003	164.8785
Total	**0.1118**	**2.0503**	**1.1099**	**9.4600e-003**	**0.4091**	**0.0183**	**0.4274**	**0.1109**	**0.0174**	**0.1284**		**1,022.5665**	**1,022.5665**	**0.0488**	**0.1391**	**1,065.2489**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883
Total	**0.0693**	**0.2297**	**0.7499**	**2.5800e-003**	**0.2268**	**3.1500e-003**	**0.2300**	**0.0607**	**2.9600e-003**	**0.0637**		**266.3236**	**266.3236**	**7.5700e-003**	**0.0163**	**271.3793**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.8457**	**1.6126**	**10.4582**	**4.5461**	**1.4836**	**6.0297**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883
Total	**0.0693**	**0.2297**	**0.7499**	**2.5800e-003**	**0.2268**	**3.1500e-003**	**0.2300**	**0.0607**	**2.9600e-003**	**0.0637**		**266.3236**	**266.3236**	**7.5700e-003**	**0.0163**	**271.3793**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0127	0.4681	0.1119	1.8200e-003	0.0525	3.9100e-003	0.0564	0.0144	3.7400e-003	0.0181		199.1522	199.1522	0.0107	0.0316	208.8409
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0551	0.0388	0.6099	1.6200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		163.6052	163.6052	4.2800e-003	3.9100e-003	164.8785
Total	**0.0751**	**0.6929**	**0.7855**	**4.2000e-003**	**0.2569**	**6.9300e-003**	**0.2639**	**0.0692**	**6.5800e-003**	**0.0758**		**445.0251**	**445.0251**	**0.0177**	**0.0475**	**459.6104**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**3.1884**	**0.9409**	**4.1292**	**1.5413**	**0.8656**	**2.4069**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0127	0.4681	0.1119	1.8200e-003	0.0525	3.9100e-003	0.0564	0.0144	3.7400e-003	0.0181		199.1522	199.1522	0.0107	0.0316	208.8409
Vendor	7.2900e-003	0.1861	0.0638	7.6000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8600e-003	9.2400e-003		82.2677	82.2677	2.7600e-003	0.0119	85.8909
Worker	0.0551	0.0388	0.6099	1.6200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		163.6052	163.6052	4.2800e-003	3.9100e-003	164.8785
Total	**0.0751**	**0.6929**	**0.7855**	**4.2000e-003**	**0.2569**	**6.9300e-003**	**0.2639**	**0.0692**	**6.5800e-003**	**0.0758**		**445.0251**	**445.0251**	**0.0177**	**0.0475**	**459.6104**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0401	1.0237	0.3510	4.2100e-003	0.1409	0.0107	0.1516	0.0406	0.0102	0.0508		452.4726	452.4726	0.0152	0.0656	472.4001
Worker	0.1928	0.1356	2.1346	5.6700e-003	0.6260	3.7300e-003	0.6297	0.1660	3.4400e-003	0.1694		572.6181	572.6181	0.0150	0.0137	577.0749
Total	**0.2329**	**1.1593**	**2.4855**	**9.8800e-003**	**0.7668**	**0.0144**	**0.7813**	**0.2066**	**0.0137**	**0.2202**		**1,025.0906**	**1,025.0906**	**0.0301**	**0.0793**	**1,049.4750**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0401	1.0237	0.3510	4.2100e-003	0.1409	0.0107	0.1516	0.0406	0.0102	0.0508		452.4726	452.4726	0.0152	0.0656	472.4001
Worker	0.1928	0.1356	2.1346	5.6700e-003	0.6260	3.7300e-003	0.6297	0.1660	3.4400e-003	0.1694		572.6181	572.6181	0.0150	0.0137	577.0749
Total	**0.2329**	**1.1593**	**2.4855**	**9.8800e-003**	**0.7668**	**0.0144**	**0.7813**	**0.2066**	**0.0137**	**0.2202**		**1,025.0906**	**1,025.0906**	**0.0301**	**0.0793**	**1,049.4750**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0243	0.7986	0.3144	4.0000e-003	0.1409	4.6500e-003	0.1455	0.0406	4.4500e-003	0.0450		431.2680	431.2680	0.0145	0.0624	450.2358
Worker	0.1788	0.1200	1.9644	5.4800e-003	0.6260	3.5100e-003	0.6295	0.1660	3.2300e-003	0.1692		554.1718	554.1718	0.0134	0.0127	558.2796
Total	**0.2031**	**0.9186**	**2.2788**	**9.4800e-003**	**0.7668**	**8.1600e-003**	**0.7750**	**0.2066**	**7.6800e-003**	**0.2143**		**985.4399**	**985.4399**	**0.0279**	**0.0751**	**1,008.5154**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0243	0.7986	0.3144	4.0000e-003	0.1409	4.6500e-003	0.1455	0.0406	4.4500e-003	0.0450		431.2680	431.2680	0.0145	0.0624	450.2358
Worker	0.1788	0.1200	1.9644	5.4800e-003	0.6260	3.5100e-003	0.6295	0.1660	3.2300e-003	0.1692		554.1718	554.1718	0.0134	0.0127	558.2796
Total	**0.2031**	**0.9186**	**2.2788**	**9.4800e-003**	**0.7668**	**8.1600e-003**	**0.7750**	**0.2066**	**7.6800e-003**	**0.2143**		**985.4399**	**985.4399**	**0.0279**	**0.0751**	**1,008.5154**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4200e-003	0.1452	0.0572	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1800e-003		78.4124	78.4124	2.6400e-003	0.0114	81.8611
Worker	0.0639	0.0429	0.7016	1.9600e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0604		197.9185	197.9185	4.8000e-003	4.5200e-003	199.3856
Total	**0.0683**	**0.1881**	**0.7587**	**2.6900e-003**	**0.2492**	**2.1100e-003**	**0.2513**	**0.0667**	**1.9700e-003**	**0.0686**		**276.3309**	**276.3309**	**7.4400e-003**	**0.0159**	**281.2466**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4200e-003	0.1452	0.0572	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1800e-003		78.4124	78.4124	2.6400e-003	0.0114	81.8611
Worker	0.0639	0.0429	0.7016	1.9600e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0604		197.9185	197.9185	4.8000e-003	4.5200e-003	199.3856
Total	**0.0683**	**0.1881**	**0.7587**	**2.6900e-003**	**0.2492**	**2.1100e-003**	**0.2513**	**0.0667**	**1.9700e-003**	**0.0686**		**276.3309**	**276.3309**	**7.4400e-003**	**0.0159**	**281.2466**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4200e-003	0.1452	0.0572	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1800e-003		78.4124	78.4124	2.6400e-003	0.0114	81.8611
Worker	0.0383	0.0257	0.4209	1.1700e-003	0.1341	7.5000e-004	0.1349	0.0356	6.9000e-004	0.0363		118.7511	118.7511	2.8800e-003	2.7100e-003	119.6313
Total	**0.0427**	**0.1709**	**0.4781**	**1.9000e-003**	**0.1597**	**1.6000e-003**	**0.1613**	**0.0429**	**1.5000e-003**	**0.0445**		**197.1635**	**197.1635**	**5.5200e-003**	**0.0141**	**201.4924**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4200e-003	0.1452	0.0572	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1800e-003		78.4124	78.4124	2.6400e-003	0.0114	81.8611
Worker	0.0383	0.0257	0.4209	1.1700e-003	0.1341	7.5000e-004	0.1349	0.0356	6.9000e-004	0.0363		118.7511	118.7511	2.8800e-003	2.7100e-003	119.6313
Total	**0.0427**	**0.1709**	**0.4781**	**1.9000e-003**	**0.1597**	**1.6000e-003**	**0.1613**	**0.0429**	**1.5000e-003**	**0.0445**		**197.1635**	**197.1635**	**5.5200e-003**	**0.0141**	**201.4924**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1986	4.3478	3.5112	0.0311	1.6884	0.0385	1.7269	0.4612	0.0367	0.4979		3,317.5285	3,317.5285	0.1278	0.3919	3,437.5076
Unmitigated	0.1986	4.3478	3.5112	0.0311	1.6884	0.0385	1.7269	0.4612	0.0367	0.4979		3,317.5285	3,317.5285	0.1278	0.3919	3,437.5076

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	394,494	394,494
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	353,036	353,036
Total	96.00	96.00	96.00	747,530	747,530

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	16.60	16.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	16.60
tblVehicleTrips	CC_TL	8.40	40.00
tblVehicleTrips	CNW_TL	6.90	16.60
tblVehicleTrips	CNW_TL	6.90	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2425	33.3255	21.6560	0.0482	19.8838	1.6157	21.4996	10.1632	1.4865	11.6497	0.0000	4,760.1622	4,760.1622	1.1998	0.1394	4,829.2448
2023	28.9684	15.3543	18.3463	0.0361	0.7668	0.7079	1.4747	0.2066	0.6661	0.8727	0.0000	3,509.2706	3,509.2706	0.6359	0.0760	3,547.8240
Maximum	**28.9684**	**33.3255**	**21.6560**	**0.0482**	**19.8838**	**1.6157**	**21.4996**	**10.1632**	**1.4865**	**11.6497**	**0.0000**	**4,760.1622**	**4,760.1622**	**1.1998**	**0.1394**	**4,829.2448**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2425	33.3255	21.6560	0.0482	9.0725	1.6157	10.6882	4.6068	1.4865	6.0934	0.0000	4,760.1622	4,760.1622	1.1998	0.1394	4,829.2448
2023	28.9684	15.3543	18.3463	0.0361	0.7668	0.7079	1.4747	0.2066	0.6661	0.8727	0.0000	3,509.2706	3,509.2706	0.6359	0.0760	3,547.8240
Maximum	**28.9684**	**33.3255**	**21.6560**	**0.0482**	**9.0725**	**1.6157**	**10.6882**	**4.6068**	**1.4865**	**6.0934**	**0.0000**	**4,760.1622**	**4,760.1622**	**1.1998**	**0.1394**	**4,829.2448**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**52.35**	**0.00**	**47.06**	**53.58**	**0.00**	**44.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1883	4.5503	3.2924	0.0307	1.6884	0.0386	1.7269	0.4612	0.0367	0.4980		3,276.4613	3,276.4613	0.1279	0.3933	3,396.8473
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.6403**	**7.3785**	**7.9038**	**0.0378**	**1.6884**	**0.1307**	**1.8191**	**0.4612**	**0.1217**	**0.5829**	**0.0000**	**3,979.2929**	**3,979.2929**	**0.3446**	**0.3939**	**4,105.2877**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1883	4.5503	3.2924	0.0307	1.6884	0.0386	1.7269	0.4612	0.0367	0.4980		3,276.4613	3,276.4613	0.1279	0.3933	3,396.8473
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.6403**	**7.3785**	**7.9038**	**0.0378**	**1.6884**	**0.1307**	**1.8191**	**0.4612**	**0.1217**	**0.5829**	**0.0000**	**3,979.2929**	**3,979.2929**	**0.3446**	**0.3939**	**4,105.2877**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0481	1.9057	0.4445	7.0800e-003	0.2047	0.0153	0.2199	0.0561	0.0146	0.0707		776.9797	776.9797	0.0417	0.1234	814.7781
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0580	0.0424	0.5513	1.5200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		154.0923	154.0923	4.3300e-003	4.1500e-003	155.4382
Total	**0.1132**	**2.1423**	**1.0619**	**9.3700e-003**	**0.4091**	**0.0183**	**0.4274**	**0.1109**	**0.0175**	**0.1284**		**1,013.3810**	**1,013.3810**	**0.0487**	**0.1394**	**1,056.1528**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**1.1348**	**1.2427**	**2.3775**	**0.1718**	**1.1553**	**1.3271**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0481	1.9057	0.4445	7.0800e-003	0.2047	0.0153	0.2199	0.0561	0.0146	0.0707		776.9797	776.9797	0.0417	0.1234	814.7781
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0580	0.0424	0.5513	1.5200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		154.0923	154.0923	4.3300e-003	4.1500e-003	155.4382
Total	**0.1132**	**2.1423**	**1.0619**	**9.3700e-003**	**0.4091**	**0.0183**	**0.4274**	**0.1109**	**0.0175**	**0.1284**		**1,013.3810**	**1,013.3810**	**0.0487**	**0.1394**	**1,056.1528**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680
Total	**0.0724**	**0.2419**	**0.6864**	**2.4900e-003**	**0.2268**	**3.1500e-003**	**0.2300**	**0.0607**	**2.9700e-003**	**0.0637**		**255.6628**	**255.6628**	**7.6200e-003**	**0.0166**	**260.8045**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.8457**	**1.6126**	**10.4582**	**4.5461**	**1.4836**	**6.0297**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680
Total	**0.0724**	**0.2419**	**0.6864**	**2.4900e-003**	**0.2268**	**3.1500e-003**	**0.2300**	**0.0607**	**2.9700e-003**	**0.0637**		**255.6628**	**255.6628**	**7.6200e-003**	**0.0166**	**260.8045**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0123	0.4886	0.1140	1.8200e-003	0.0525	3.9200e-003	0.0564	0.0144	3.7500e-003	0.0181		199.2256	199.2256	0.0107	0.0316	208.9175
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0580	0.0424	0.5513	1.5200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		154.0923	154.0923	4.3300e-003	4.1500e-003	155.4382
Total	**0.0774**	**0.7253**	**0.7314**	**4.1100e-003**	**0.2569**	**6.9400e-003**	**0.2639**	**0.0692**	**6.6000e-003**	**0.0758**		**435.6268**	**435.6268**	**0.0178**	**0.0477**	**450.2922**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**3.1884**	**0.9409**	**4.1292**	**1.5413**	**0.8656**	**2.4069**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0123	0.4886	0.1140	1.8200e-003	0.0525	3.9200e-003	0.0564	0.0144	3.7500e-003	0.0181		199.2256	199.2256	0.0107	0.0316	208.9175
Vendor	7.1600e-003	0.1943	0.0661	7.7000e-004	0.0256	1.9500e-003	0.0276	7.3700e-003	1.8700e-003	9.2400e-003		82.3089	82.3089	2.7500e-003	0.0119	85.9365
Worker	0.0580	0.0424	0.5513	1.5200e-003	0.1788	1.0700e-003	0.1799	0.0474	9.8000e-004	0.0484		154.0923	154.0923	4.3300e-003	4.1500e-003	155.4382
Total	**0.0774**	**0.7253**	**0.7314**	**4.1100e-003**	**0.2569**	**6.9400e-003**	**0.2639**	**0.0692**	**6.6000e-003**	**0.0758**		**435.6268**	**435.6268**	**0.0178**	**0.0477**	**450.2922**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0394	1.0684	0.3636	4.2100e-003	0.1409	0.0107	0.1516	0.0406	0.0103	0.0508		452.6991	452.6991	0.0151	0.0657	472.6508
Worker	0.2028	0.1484	1.9296	5.3400e-003	0.6260	3.7300e-003	0.6297	0.1660	3.4400e-003	0.1694		539.3231	539.3231	0.0152	0.0145	544.0338
Total	**0.2422**	**1.2168**	**2.2932**	**9.5500e-003**	**0.7668**	**0.0145**	**0.7813**	**0.2066**	**0.0137**	**0.2203**		**992.0222**	**992.0222**	**0.0303**	**0.0802**	**1,016.6846**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0394	1.0684	0.3636	4.2100e-003	0.1409	0.0107	0.1516	0.0406	0.0103	0.0508		452.6991	452.6991	0.0151	0.0657	472.6508
Worker	0.2028	0.1484	1.9296	5.3400e-003	0.6260	3.7300e-003	0.6297	0.1660	3.4400e-003	0.1694		539.3231	539.3231	0.0152	0.0145	544.0338
Total	**0.2422**	**1.2168**	**2.2932**	**9.5500e-003**	**0.7668**	**0.0145**	**0.7813**	**0.2066**	**0.0137**	**0.2203**		**992.0222**	**992.0222**	**0.0303**	**0.0802**	**1,016.6846**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0233	0.8382	0.3246	4.0100e-003	0.1409	4.6700e-003	0.1456	0.0406	4.4700e-003	0.0450		432.0478	432.0478	0.0144	0.0626	451.0637
Worker	0.1887	0.1312	1.7777	5.1600e-003	0.6260	3.5100e-003	0.6295	0.1660	3.2300e-003	0.1692		522.0129	522.0129	0.0136	0.0134	526.3543
Total	**0.2120**	**0.9694**	**2.1023**	**9.1700e-003**	**0.7668**	**8.1800e-003**	**0.7750**	**0.2066**	**7.7000e-003**	**0.2143**		**954.0607**	**954.0607**	**0.0281**	**0.0760**	**977.4180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0233	0.8382	0.3246	4.0100e-003	0.1409	4.6700e-003	0.1456	0.0406	4.4700e-003	0.0450		432.0478	432.0478	0.0144	0.0626	451.0637
Worker	0.1887	0.1312	1.7777	5.1600e-003	0.6260	3.5100e-003	0.6295	0.1660	3.2300e-003	0.1692		522.0129	522.0129	0.0136	0.0134	526.3543
Total	**0.2120**	**0.9694**	**2.1023**	**9.1700e-003**	**0.7668**	**8.1800e-003**	**0.7750**	**0.2066**	**7.7000e-003**	**0.2143**		**954.0607**	**954.0607**	**0.0281**	**0.0760**	**977.4180**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1524	0.0590	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1900e-003		78.5541	78.5541	2.6200e-003	0.0114	82.0116
Worker	0.0674	0.0469	0.6349	1.8400e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0604		186.4332	186.4332	4.8600e-003	4.7900e-003	187.9837
Total	**0.0716**	**0.1993**	**0.6939**	**2.5700e-003**	**0.2492**	**2.1100e-003**	**0.2513**	**0.0667**	**1.9700e-003**	**0.0686**		**264.9873**	**264.9873**	**7.4800e-003**	**0.0162**	**269.9952**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1524	0.0590	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1900e-003		78.5541	78.5541	2.6200e-003	0.0114	82.0116
Worker	0.0674	0.0469	0.6349	1.8400e-003	0.2236	1.2600e-003	0.2248	0.0593	1.1600e-003	0.0604		186.4332	186.4332	4.8600e-003	4.7900e-003	187.9837
Total	**0.0716**	**0.1993**	**0.6939**	**2.5700e-003**	**0.2492**	**2.1100e-003**	**0.2513**	**0.0667**	**1.9700e-003**	**0.0686**		**264.9873**	**264.9873**	**7.4800e-003**	**0.0162**	**269.9952**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1524	0.0590	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1900e-003		78.5541	78.5541	2.6200e-003	0.0114	82.0116
Worker	0.0404	0.0281	0.3809	1.1100e-003	0.1341	7.5000e-004	0.1349	0.0356	6.9000e-004	0.0363		111.8599	111.8599	2.9200e-003	2.8800e-003	112.7902
Total	**0.0447**	**0.1805**	**0.4400**	**1.8400e-003**	**0.1597**	**1.6000e-003**	**0.1613**	**0.0429**	**1.5000e-003**	**0.0445**		**190.4141**	**190.4141**	**5.5400e-003**	**0.0143**	**194.8018**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1524	0.0590	7.3000e-004	0.0256	8.5000e-004	0.0265	7.3700e-003	8.1000e-004	8.1900e-003		78.5541	78.5541	2.6200e-003	0.0114	82.0116
Worker	0.0404	0.0281	0.3809	1.1100e-003	0.1341	7.5000e-004	0.1349	0.0356	6.9000e-004	0.0363		111.8599	111.8599	2.9200e-003	2.8800e-003	112.7902
Total	**0.0447**	**0.1805**	**0.4400**	**1.8400e-003**	**0.1597**	**1.6000e-003**	**0.1613**	**0.0429**	**1.5000e-003**	**0.0445**		**190.4141**	**190.4141**	**5.5400e-003**	**0.0143**	**194.8018**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1883	4.5503	3.2924	0.0307	1.6884	0.0386	1.7269	0.4612	0.0367	0.4980		3,276.4613	3,276.4613	0.1279	0.3933	3,396.8473
Unmitigated	0.1883	4.5503	3.2924	0.0307	1.6884	0.0386	1.7269	0.4612	0.0367	0.4980		3,276.4613	3,276.4613	0.1279	0.3933	3,396.8473

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	394,494	394,494
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	353,036	353,036
Total	96.00	96.00	96.00	747,530	747,530

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	16.60	16.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	40.00	40.00	40.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse LST

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips. Onsite emissions only for LST.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Onsite emissions only for LST.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1983	33.1430	20.8778	0.0393	19.6606	1.6128	21.2734	10.1035	1.4838	11.5872	0.0000	3,802.7328	3,802.7328	1.1946	0.0110	3,831.8097
2023	28.9421	14.6750	16.7176	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.2815	2,619.2815	0.6156	0.0105	2,637.8011
Maximum	**28.9421**	**33.1430**	**20.8778**	**0.0393**	**19.6606**	**1.6128**	**21.2734**	**10.1035**	**1.4838**	**11.5872**	**0.0000**	**3,802.7328**	**3,802.7328**	**1.1946**	**0.0110**	**3,831.8097**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1983	33.1430	20.8778	0.0393	8.8492	1.6128	10.4620	4.5471	1.4838	6.0309	0.0000	3,802.7328	3,802.7328	1.1946	0.0110	3,831.8097
2023	28.9421	14.6750	16.7176	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.2815	2,619.2815	0.6156	0.0105	2,637.8011
Maximum	**28.9421**	**33.1430**	**20.8778**	**0.0393**	**8.8492**	**1.6128**	**10.4620**	**4.5471**	**1.4838**	**6.0309**	**0.0000**	**3,802.7328**	**3,802.7328**	**1.1946**	**0.0110**	**3,831.8097**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.95**	**0.00**	**49.17**	**54.97**	**0.00**	**45.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5625**	**3.2033**	**5.2220**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1065**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**776.7449**	**776.7449**	**0.2262**	**0.0137**	**786.4764**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5625**	**3.2033**	**5.2220**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1065**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**776.7449**	**776.7449**	**0.2262**	**0.0137**	**786.4764**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.2389	0.1685	3.9000e-004	2.1900e-003	3.0000e-004	2.4900e-003	6.2000e-004	2.9000e-004	9.1000e-004		41.8735	41.8735	1.3300e-003	6.6200e-003	43.8799
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0386**	**0.2974**	**0.2837**	**5.2000e-004**	**5.4700e-003**	**4.9000e-004**	**5.9600e-003**	**1.5300e-003**	**4.6000e-004**	**2.0100e-003**		**55.9517**	**55.9517**	**3.5400e-003**	**8.9800e-003**	**58.7176**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**1.1348**	**1.2427**	**2.3775**	**0.1718**	**1.1553**	**1.3271**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.2389	0.1685	3.9000e-004	2.1900e-003	3.0000e-004	2.4900e-003	6.2000e-004	2.9000e-004	9.1000e-004		41.8735	41.8735	1.3300e-003	6.6200e-003	43.8799
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0386**	**0.2974**	**0.2837**	**5.2000e-004**	**5.4700e-003**	**4.9000e-004**	**5.9600e-003**	**1.5300e-003**	**4.6000e-004**	**2.0100e-003**		**55.9517**	**55.9517**	**3.5400e-003**	**8.9800e-003**	**58.7176**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0254	8.9800e-003	0.0892	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.9021	5.9021	2.1500e-003	1.1100e-003	6.2879
Total	**0.0282**	**0.0595**	**0.1252**	**1.4000e-004**	**3.5900e-003**	**2.0000e-004**	**3.7900e-003**	**1.0000e-003**	**1.8000e-004**	**1.1900e-003**		**14.7340**	**14.7340**	**2.4500e-003**	**2.4800e-003**	**15.5364**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.8457**	**1.6126**	**10.4582**	**4.5461**	**1.4836**	**6.0297**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0254	8.9800e-003	0.0892	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.9021	5.9021	2.1500e-003	1.1100e-003	6.2879
Total	**0.0282**	**0.0595**	**0.1252**	**1.4000e-004**	**3.5900e-003**	**2.0000e-004**	**3.7900e-003**	**1.0000e-003**	**1.8000e-004**	**1.1900e-003**		**14.7340**	**14.7340**	**2.4500e-003**	**2.4800e-003**	**15.5364**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0613	0.0432	1.0000e-004	5.6000e-004	8.0000e-005	6.4000e-004	1.6000e-004	7.0000e-005	2.3000e-004		10.7368	10.7368	3.4000e-004	1.7000e-003	11.2513
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0288**	**0.1198**	**0.1585**	**2.3000e-004**	**3.8400e-003**	**2.7000e-004**	**4.1100e-003**	**1.0700e-003**	**2.4000e-004**	**1.3300e-003**		**24.8150**	**24.8150**	**2.5500e-003**	**4.0600e-003**	**26.0890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**3.1884**	**0.9409**	**4.1292**	**1.5413**	**0.8656**	**2.4069**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0613	0.0432	1.0000e-004	5.6000e-004	8.0000e-005	6.4000e-004	1.6000e-004	7.0000e-005	2.3000e-004		10.7368	10.7368	3.4000e-004	1.7000e-003	11.2513
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0288**	**0.1198**	**0.1585**	**2.3000e-004**	**3.8400e-003**	**2.7000e-004**	**4.1100e-003**	**1.0700e-003**	**2.4000e-004**	**1.3300e-003**		**24.8150**	**24.8150**	**2.5500e-003**	**4.0600e-003**	**26.0890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.2779	0.1980	4.5000e-004	4.4400e-003	5.4000e-004	4.9900e-003	1.3400e-003	5.2000e-004	1.8600e-003		48.5754	48.5754	1.6400e-003	7.5500e-003	50.8670
Worker	0.0789	0.0280	0.2774	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		18.3620	18.3620	6.7000e-003	3.4700e-003	19.5622
Total	**0.0944**	**0.3058**	**0.4754**	**6.3000e-004**	**0.0131**	**8.6000e-004**	**0.0140**	**3.7000e-003**	**8.1000e-004**	**4.5200e-003**		**66.9374**	**66.9374**	**8.3400e-003**	**0.0110**	**70.4292**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.2779	0.1980	4.5000e-004	4.4400e-003	5.4000e-004	4.9900e-003	1.3400e-003	5.2000e-004	1.8600e-003		48.5754	48.5754	1.6400e-003	7.5500e-003	50.8670
Worker	0.0789	0.0280	0.2774	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		18.3620	18.3620	6.7000e-003	3.4700e-003	19.5622
Total	**0.0944**	**0.3058**	**0.4754**	**6.3000e-004**	**0.0131**	**8.6000e-004**	**0.0140**	**3.7000e-003**	**8.1000e-004**	**4.5200e-003**		**66.9374**	**66.9374**	**8.3400e-003**	**0.0110**	**70.4292**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.2644	0.2075	4.3000e-004	4.4400e-003	2.6000e-004	4.7000e-003	1.3400e-003	2.5000e-004	1.5900e-003		46.2980	46.2980	1.6200e-003	7.2000e-003	48.4854
Worker	0.0728	0.0257	0.2662	1.8000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.7736	17.7736	6.1700e-003	3.2900e-003	18.9097
Total	**0.0877**	**0.2902**	**0.4736**	**6.1000e-004**	**0.0131**	**5.6000e-004**	**0.0136**	**3.7000e-003**	**5.3000e-004**	**4.2300e-003**		**64.0716**	**64.0716**	**7.7900e-003**	**0.0105**	**67.3950**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.2644	0.2075	4.3000e-004	4.4400e-003	2.6000e-004	4.7000e-003	1.3400e-003	2.5000e-004	1.5900e-003		46.2980	46.2980	1.6200e-003	7.2000e-003	48.4854
Worker	0.0728	0.0257	0.2662	1.8000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.7736	17.7736	6.1700e-003	3.2900e-003	18.9097
Total	**0.0877**	**0.2902**	**0.4736**	**6.1000e-004**	**0.0131**	**5.6000e-004**	**0.0136**	**3.7000e-003**	**5.3000e-004**	**4.2300e-003**		**64.0716**	**64.0716**	**7.7900e-003**	**0.0105**	**67.3950**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0260	9.1900e-003	0.0951	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3477	6.3477	2.2000e-003	1.1800e-003	6.7535
Total	**0.0287**	**0.0573**	**0.1328**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7655**	**14.7655**	**2.4900e-003**	**2.4900e-003**	**15.5690**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0260	9.1900e-003	0.0951	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3477	6.3477	2.2000e-003	1.1800e-003	6.7535
Total	**0.0287**	**0.0573**	**0.1328**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7655**	**14.7655**	**2.4900e-003**	**2.4900e-003**	**15.5690**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0156	5.5100e-003	0.0570	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.8086	3.8086	1.3200e-003	7.1000e-004	4.0521
Total	**0.0183**	**0.0536**	**0.0948**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2265**	**12.2265**	**1.6100e-003**	**2.0200e-003**	**12.8676**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0156	5.5100e-003	0.0570	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.8086	3.8086	1.3200e-003	7.1000e-004	4.0521
Total	**0.0183**	**0.0536**	**0.0948**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2265**	**12.2265**	**1.6100e-003**	**2.0200e-003**	**12.8676**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Unmitigated	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	4,591	4,591
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	1,705	1,705
Total	96.00	96.00	96.00	6,296	6,296

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse LST

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips. Onsite emissions only for LST.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Onsite emissions only for LST.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1962	33.1462	20.9012	0.0393	19.6606	1.6128	21.2734	10.1035	1.4838	11.5872	0.0000	3,802.9005	3,802.9005	1.1949	0.0113	3,832.0154
2023	28.9406	14.6941	16.7708	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.5190	2,619.5190	0.6164	0.0108	2,638.1565
Maximum	**28.9406**	**33.1462**	**20.9012**	**0.0393**	**19.6606**	**1.6128**	**21.2734**	**10.1035**	**1.4838**	**11.5872**	**0.0000**	**3,802.9005**	**3,802.9005**	**1.1949**	**0.0113**	**3,832.0154**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1962	33.1462	20.9012	0.0393	8.8492	1.6128	10.4620	4.5471	1.4838	6.0309	0.0000	3,802.9005	3,802.9005	1.1949	0.0113	3,832.0154
2023	28.9406	14.6941	16.7708	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.5190	2,619.5190	0.6164	0.0108	2,638.1565
Maximum	**28.9406**	**33.1462**	**20.9012**	**0.0393**	**8.8492**	**1.6128**	**10.4620**	**4.5471**	**1.4838**	**6.0309**	**0.0000**	**3,802.9005**	**3,802.9005**	**1.1949**	**0.0113**	**3,832.0154**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.95**	**0.00**	**49.17**	**54.97**	**0.00**	**45.36**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5553**	**3.2308**	**5.2906**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1066**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**777.5702**	**777.5702**	**0.2271**	**0.0141**	**787.4568**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5553**	**3.2308**	**5.2906**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1066**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**777.5702**	**777.5702**	**0.2271**	**0.0141**	**787.4568**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.2522	0.1770	3.9000e-004	2.1900e-003	3.3000e-004	2.5200e-003	6.2000e-004	3.2000e-004	9.4000e-004		42.1601	42.1601	1.2600e-003	6.6700e-003	44.1780
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0354**	**0.3138**	**0.3072**	**5.2000e-004**	**5.4700e-003**	**5.3000e-004**	**5.9900e-003**	**1.5300e-003**	**5.0000e-004**	**2.0400e-003**		**56.1193**	**56.1193**	**3.7300e-003**	**9.1000e-003**	**58.9234**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**1.1348**	**1.2427**	**2.3775**	**0.1718**	**1.1553**	**1.3271**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.2522	0.1770	3.9000e-004	2.1900e-003	3.3000e-004	2.5200e-003	6.2000e-004	3.2000e-004	9.4000e-004		42.1601	42.1601	1.2600e-003	6.6700e-003	44.1780
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0354**	**0.3138**	**0.3072**	**5.2000e-004**	**5.4700e-003**	**5.3000e-004**	**5.9900e-003**	**1.5300e-003**	**5.0000e-004**	**2.0400e-003**		**56.1193**	**56.1193**	**3.7300e-003**	**9.1000e-003**	**58.9234**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0235	9.7800e-003	0.1032	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.7215	5.7215	2.4500e-003	1.1800e-003	6.1346
Total	**0.0261**	**0.0627**	**0.1417**	**1.4000e-004**	**3.5900e-003**	**2.1000e-004**	**3.7900e-003**	**1.0000e-003**	**1.9000e-004**	**1.1900e-003**		**14.5949**	**14.5949**	**2.7400e-003**	**2.5600e-003**	**15.4270**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**8.8457**	**1.6126**	**10.4582**	**4.5461**	**1.4836**	**6.0297**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0235	9.7800e-003	0.1032	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.7215	5.7215	2.4500e-003	1.1800e-003	6.1346
Total	**0.0261**	**0.0627**	**0.1417**	**1.4000e-004**	**3.5900e-003**	**2.1000e-004**	**3.7900e-003**	**1.0000e-003**	**1.9000e-004**	**1.1900e-003**		**14.5949**	**14.5949**	**2.7400e-003**	**2.5600e-003**	**15.4270**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0500e-003	0.0647	0.0454	1.0000e-004	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	8.0000e-005	2.4000e-004		10.8103	10.8103	3.2000e-004	1.7100e-003	11.3277
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0265**	**0.1263**	**0.1756**	**2.3000e-004**	**3.8400e-003**	**2.9000e-004**	**4.1200e-003**	**1.0700e-003**	**2.6000e-004**	**1.3400e-003**		**24.7695**	**24.7695**	**2.7900e-003**	**4.1400e-003**	**26.0730**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**3.1884**	**0.9409**	**4.1292**	**1.5413**	**0.8656**	**2.4069**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0500e-003	0.0647	0.0454	1.0000e-004	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	8.0000e-005	2.4000e-004		10.8103	10.8103	3.2000e-004	1.7100e-003	11.3277
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0265**	**0.1263**	**0.1756**	**2.3000e-004**	**3.8400e-003**	**2.9000e-004**	**4.1200e-003**	**1.0700e-003**	**2.6000e-004**	**1.3400e-003**		**24.7695**	**24.7695**	**2.7900e-003**	**4.1400e-003**	**26.0730**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.2909	0.2117	4.5000e-004	4.4400e-003	5.8000e-004	5.0200e-003	1.3400e-003	5.5000e-004	1.8900e-003		48.8038	48.8038	1.6000e-003	7.6000e-003	51.1078
Worker	0.0731	0.0304	0.3210	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		17.8003	17.8003	7.6100e-003	3.6700e-003	19.0855
Total	**0.0874**	**0.3214**	**0.5328**	**6.3000e-004**	**0.0131**	**9.0000e-004**	**0.0140**	**3.7000e-003**	**8.4000e-004**	**4.5500e-003**		**66.6041**	**66.6041**	**9.2100e-003**	**0.0113**	**70.1933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.2909	0.2117	4.5000e-004	4.4400e-003	5.8000e-004	5.0200e-003	1.3400e-003	5.5000e-004	1.8900e-003		48.8038	48.8038	1.6000e-003	7.6000e-003	51.1078
Worker	0.0731	0.0304	0.3210	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		17.8003	17.8003	7.6100e-003	3.6700e-003	19.0855
Total	**0.0874**	**0.3214**	**0.5328**	**6.3000e-004**	**0.0131**	**9.0000e-004**	**0.0140**	**3.7000e-003**	**8.4000e-004**	**4.5500e-003**		**66.6041**	**66.6041**	**9.2100e-003**	**0.0113**	**70.1933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0134	0.2812	0.2185	4.4000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.3400e-003	2.7000e-004	1.6100e-003		47.0793	47.0793	1.5600e-003	7.3400e-003	49.3045
Worker	0.0672	0.0280	0.3083	1.7000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.2298	17.2298	7.0100e-003	3.4900e-003	18.4459
Total	**0.0807**	**0.3092**	**0.5268**	**6.1000e-004**	**0.0131**	**5.9000e-004**	**0.0137**	**3.7000e-003**	**5.5000e-004**	**4.2500e-003**		**64.3091**	**64.3091**	**8.5700e-003**	**0.0108**	**67.7504**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0134	0.2812	0.2185	4.4000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.3400e-003	2.7000e-004	1.6100e-003		47.0793	47.0793	1.5600e-003	7.3400e-003	49.3045
Worker	0.0672	0.0280	0.3083	1.7000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.2298	17.2298	7.0100e-003	3.4900e-003	18.4459
Total	**0.0807**	**0.3092**	**0.5268**	**6.1000e-004**	**0.0131**	**5.9000e-004**	**0.0137**	**3.7000e-003**	**5.5000e-004**	**4.2500e-003**		**64.3091**	**64.3091**	**8.5700e-003**	**0.0108**	**67.7504**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0240	0.0100	0.1101	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1535	6.1535	2.5000e-003	1.2500e-003	6.5878
Total	**0.0265**	**0.0611**	**0.1498**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7134**	**14.7134**	**2.7800e-003**	**2.5800e-003**	**15.5523**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0240	0.0100	0.1101	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1535	6.1535	2.5000e-003	1.2500e-003	6.5878
Total	**0.0265**	**0.0611**	**0.1498**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7134**	**14.7134**	**2.7800e-003**	**2.5800e-003**	**15.5523**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0144	6.0000e-003	0.0661	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.6921	3.6921	1.5000e-003	7.5000e-004	3.9527
Total	**0.0169**	**0.0571**	**0.1058**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2520**	**12.2520**	**1.7800e-003**	**2.0800e-003**	**12.9172**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0144	6.0000e-003	0.0661	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.6921	3.6921	1.5000e-003	7.5000e-004	3.9527
Total	**0.0169**	**0.0571**	**0.1058**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2520**	**12.2520**	**1.7800e-003**	**2.0800e-003**	**12.9172**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Unmitigated	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	4,591	4,591
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	1,705	1,705
Total	96.00	96.00	96.00	6,296	6,296

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse LST Mitigated

South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips. Onsite emissions only for LST.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Onsite emissions only for LST.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65
tblFleetMix	LDA	0.54	0.59

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1983	33.1430	20.8778	0.0393	19.6606	1.6128	21.2734	10.1035	1.4838	11.5872	0.0000	3,802.7328	3,802.7328	1.1946	0.0110	3,831.8097
2023	28.9421	14.6750	16.7176	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.2815	2,619.2815	0.6156	0.0105	2,637.8011
Maximum	**28.9421**	**33.1430**	**20.8778**	**0.0393**	**19.6606**	**1.6128**	**21.2734**	**10.1035**	**1.4838**	**11.5872**	**0.0000**	**3,802.7328**	**3,802.7328**	**1.1946**	**0.0110**	**3,831.8097**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7249	13.8550	24.9576	0.0393	8.8492	0.0855	8.9115	4.5471	0.0854	4.6094	0.0000	3,802.7328	3,802.7328	1.1946	0.0110	3,831.8097
2023	28.8049	11.2023	18.3474	0.0276	0.0131	0.0852	0.0982	3.7000e-003	0.0851	0.0888	0.0000	2,619.2815	2,619.2815	0.6156	0.0105	2,637.8011
Maximum	**28.8049**	**13.8550**	**24.9576**	**0.0393**	**8.8492**	**0.0855**	**8.9115**	**4.5471**	**0.0854**	**4.6094**	**0.0000**	**3,802.7328**	**3,802.7328**	**1.1946**	**0.0110**	**3,831.8097**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.12**	**47.60**	**-15.19**	**0.00**	**54.95**	**92.62**	**59.02**	**54.97**	**92.04**	**61.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5625**	**3.2033**	**5.2220**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1065**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**776.7449**	**776.7449**	**0.2262**	**0.0137**	**786.4764**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5625**	**3.2033**	**5.2220**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1065**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**776.7449**	**776.7449**	**0.2262**	**0.0137**	**786.4764**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.2389	0.1685	3.9000e-004	2.1900e-003	3.0000e-004	2.4900e-003	6.2000e-004	2.9000e-004	9.1000e-004		41.8735	41.8735	1.3300e-003	6.6200e-003	43.8799
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0386**	**0.2974**	**0.2837**	**5.2000e-004**	**5.4700e-003**	**4.9000e-004**	**5.9600e-003**	**1.5300e-003**	**4.6000e-004**	**2.0100e-003**		**55.9517**	**55.9517**	**3.5400e-003**	**8.9800e-003**	**58.7176**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.5841**	**13.5576**	**24.6739**	**0.0388**	**1.1348**	**0.0616**	**1.1965**	**0.1718**	**0.0616**	**0.2335**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.2389	0.1685	3.9000e-004	2.1900e-003	3.0000e-004	2.4900e-003	6.2000e-004	2.9000e-004	9.1000e-004		41.8735	41.8735	1.3300e-003	6.6200e-003	43.8799
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0386**	**0.2974**	**0.2837**	**5.2000e-004**	**5.4700e-003**	**4.9000e-004**	**5.9600e-003**	**1.5300e-003**	**4.6000e-004**	**2.0100e-003**		**55.9517**	**55.9517**	**3.5400e-003**	**8.9800e-003**	**58.7176**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0254	8.9800e-003	0.0892	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.9021	5.9021	2.1500e-003	1.1100e-003	6.2879
Total	**0.0282**	**0.0595**	**0.1252**	**1.4000e-004**	**3.5900e-003**	**2.0000e-004**	**3.7900e-003**	**1.0000e-003**	**1.8000e-004**	**1.1900e-003**		**14.7340**	**14.7340**	**2.4500e-003**	**2.4800e-003**	**15.5364**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.6967**	**12.1620**	**22.9600**	**0.0380**	**8.8457**	**0.0621**	**8.9077**	**4.5461**	**0.0621**	**4.6082**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0254	8.9800e-003	0.0892	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.9021	5.9021	2.1500e-003	1.1100e-003	6.2879
Total	**0.0282**	**0.0595**	**0.1252**	**1.4000e-004**	**3.5900e-003**	**2.0000e-004**	**3.7900e-003**	**1.0000e-003**	**1.8000e-004**	**1.1900e-003**		**14.7340**	**14.7340**	**2.4500e-003**	**2.4800e-003**	**15.5364**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0613	0.0432	1.0000e-004	5.6000e-004	8.0000e-005	6.4000e-004	1.6000e-004	7.0000e-005	2.3000e-004		10.7368	10.7368	3.4000e-004	1.7000e-003	11.2513
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0288**	**0.1198**	**0.1585**	**2.3000e-004**	**3.8400e-003**	**2.7000e-004**	**4.1100e-003**	**1.0700e-003**	**2.4000e-004**	**1.3300e-003**		**24.8150**	**24.8150**	**2.5500e-003**	**4.0600e-003**	**26.0890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	0.5200	10.3327	18.9906	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**0.5200**	**10.3327**	**18.9906**	**0.0297**	**3.1884**	**0.0484**	**3.2368**	**1.5413**	**0.0484**	**1.5897**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-003	0.0613	0.0432	1.0000e-004	5.6000e-004	8.0000e-005	6.4000e-004	1.6000e-004	7.0000e-005	2.3000e-004		10.7368	10.7368	3.4000e-004	1.7000e-003	11.2513
Vendor	2.8200e-003	0.0505	0.0360	8.0000e-005	8.1000e-004	1.0000e-004	9.1000e-004	2.4000e-004	9.0000e-005	3.4000e-004		8.8319	8.8319	3.0000e-004	1.3700e-003	9.2485
Worker	0.0225	7.9800e-003	0.0793	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.2463	5.2463	1.9100e-003	9.9000e-004	5.5892
Total	**0.0288**	**0.1198**	**0.1585**	**2.3000e-004**	**3.8400e-003**	**2.7000e-004**	**4.1100e-003**	**1.0700e-003**	**2.4000e-004**	**1.3300e-003**		**24.8150**	**24.8150**	**2.5500e-003**	**4.0600e-003**	**26.0890**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.2779	0.1980	4.5000e-004	4.4400e-003	5.4000e-004	4.9900e-003	1.3400e-003	5.2000e-004	1.8600e-003		48.5754	48.5754	1.6400e-003	7.5500e-003	50.8670
Worker	0.0789	0.0280	0.2774	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		18.3620	18.3620	6.7000e-003	3.4700e-003	19.5622
Total	**0.0944**	**0.3058**	**0.4754**	**6.3000e-004**	**0.0131**	**8.6000e-004**	**0.0140**	**3.7000e-003**	**8.1000e-004**	**4.5200e-003**		**66.9374**	**66.9374**	**8.3400e-003**	**0.0110**	**70.4292**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.5335**	**10.9122**	**17.8738**	**0.0269**		**0.0846**	**0.0846**		**0.0846**	**0.0846**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0155	0.2779	0.1980	4.5000e-004	4.4400e-003	5.4000e-004	4.9900e-003	1.3400e-003	5.2000e-004	1.8600e-003		48.5754	48.5754	1.6400e-003	7.5500e-003	50.8670
Worker	0.0789	0.0280	0.2774	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		18.3620	18.3620	6.7000e-003	3.4700e-003	19.5622
Total	**0.0944**	**0.3058**	**0.4754**	**6.3000e-004**	**0.0131**	**8.6000e-004**	**0.0140**	**3.7000e-003**	**8.1000e-004**	**4.5200e-003**		**66.9374**	**66.9374**	**8.3400e-003**	**0.0110**	**70.4292**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.2644	0.2075	4.3000e-004	4.4400e-003	2.6000e-004	4.7000e-003	1.3400e-003	2.5000e-004	1.5900e-003		46.2980	46.2980	1.6200e-003	7.2000e-003	48.4854
Worker	0.0728	0.0257	0.2662	1.8000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.7736	17.7736	6.1700e-003	3.2900e-003	18.9097
Total	**0.0877**	**0.2902**	**0.4736**	**6.1000e-004**	**0.0131**	**5.6000e-004**	**0.0136**	**3.7000e-003**	**5.3000e-004**	**4.2300e-003**		**64.0716**	**64.0716**	**7.7900e-003**	**0.0105**	**67.3950**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.5335**	**10.9122**	**17.8738**	**0.0269**		**0.0846**	**0.0846**		**0.0846**	**0.0846**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0149	0.2644	0.2075	4.3000e-004	4.4400e-003	2.6000e-004	4.7000e-003	1.3400e-003	2.5000e-004	1.5900e-003		46.2980	46.2980	1.6200e-003	7.2000e-003	48.4854
Worker	0.0728	0.0257	0.2662	1.8000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.7736	17.7736	6.1700e-003	3.2900e-003	18.9097
Total	**0.0877**	**0.2902**	**0.4736**	**6.1000e-004**	**0.0131**	**5.6000e-004**	**0.0136**	**3.7000e-003**	**5.3000e-004**	**4.2300e-003**		**64.0716**	**64.0716**	**7.7900e-003**	**0.0105**	**67.3950**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0260	9.1900e-003	0.0951	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3477	6.3477	2.2000e-003	1.1800e-003	6.7535
Total	**0.0287**	**0.0573**	**0.1328**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7655**	**14.7655**	**2.4900e-003**	**2.4900e-003**	**15.5690**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2913	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4529**	**7.8490**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0260	9.1900e-003	0.0951	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.3477	6.3477	2.2000e-003	1.1800e-003	6.7535
Total	**0.0287**	**0.0573**	**0.1328**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7655**	**14.7655**	**2.4900e-003**	**2.4900e-003**	**15.5690**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0156	5.5100e-003	0.0570	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.8086	3.8086	1.3200e-003	7.1000e-004	4.0521
Total	**0.0183**	**0.0536**	**0.0948**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2265**	**12.2265**	**1.6100e-003**	**2.0200e-003**	**12.8676**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.7866**	**1.0598**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7100e-003	0.0481	0.0377	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.4178	8.4178	2.9000e-004	1.3100e-003	8.8155
Worker	0.0156	5.5100e-003	0.0570	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.8086	3.8086	1.3200e-003	7.1000e-004	4.0521
Total	**0.0183**	**0.0536**	**0.0948**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2265**	**12.2265**	**1.6100e-003**	**2.0200e-003**	**12.8676**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360
Unmitigated	0.1105	0.3751	0.6106	7.0000e-004	0.0138	6.1000e-004	0.0144	3.7100e-003	5.7000e-004	4.2800e-003		73.9133	73.9133	9.5100e-003	0.0130	78.0360

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	4,591	4,591
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	1,705	1,705
Total	96.00	96.00	96.00	6,296	6,296

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse LST Mitigated

South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips. Onsite emissions only for LST.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Onsite emissions only for LST.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65
tblFleetMix	LDA	0.54	0.59

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripLength	14.70	0.19
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblVehicleTrips	CC_TL	8.40	0.19
tblVehicleTrips	CC_TL	8.40	0.19

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CNW_TL	6.90	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	CW_TL	16.60	0.19
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	2.58
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	2.58
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	2.58
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.1962	33.1462	20.9012	0.0393	19.6606	1.6128	21.2734	10.1035	1.4838	11.5872	0.0000	3,802.9005	3,802.9005	1.1949	0.0113	3,832.0154
2023	28.9406	14.6941	16.7708	0.0276	0.0131	0.7003	0.7134	3.7000e-003	0.6590	0.6627	0.0000	2,619.5190	2,619.5190	0.6164	0.0108	2,638.1565
Maximum	**28.9406**	**33.1462**	**20.9012**	**0.0393**	**19.6606**	**1.6128**	**21.2734**	**10.1035**	**1.4838**	**11.5872**	**0.0000**	**3,802.9005**	**3,802.9005**	**1.1949**	**0.0113**	**3,832.0154**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.7228	13.8714	24.9810	0.0393	8.8492	0.0855	8.9115	4.5471	0.0855	4.6094	0.0000	3,802.9005	3,802.9005	1.1949	0.0113	3,832.0154
2023	28.8034	11.2214	18.4006	0.0276	0.0131	0.0852	0.0983	3.7000e-003	0.0852	0.0889	0.0000	2,619.5190	2,619.5190	0.6164	0.0108	2,638.1565
Maximum	**28.8034**	**13.8714**	**24.9810**	**0.0393**	**8.8492**	**0.0855**	**8.9115**	**4.5471**	**0.0855**	**4.6094**	**0.0000**	**3,802.9005**	**3,802.9005**	**1.1949**	**0.0113**	**3,832.0154**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.12**	**47.55**	**-15.16**	**0.00**	**54.95**	**92.62**	**59.02**	**54.97**	**92.04**	**61.65**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5553**	**3.2308**	**5.2906**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1066**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**777.5702**	**777.5702**	**0.2271**	**0.0141**	**787.4568**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Energy	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
Mobile	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Offroad	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**1.5553**	**3.2308**	**5.2906**	**7.7800e-003**	**0.0138**	**0.0928**	**0.1066**	**3.7100e-003**	**0.0856**	**0.0893**	**0.0000**	**777.5702**	**777.5702**	**0.2271**	**0.0141**	**787.4568**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	
3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	4.00	234.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	16.00	4.00	24.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	4.00	0.00	0.19	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5219	0.0000	2.5219	0.3818	0.0000	0.3818			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.5219**	**1.2427**	**3.7645**	**0.3818**	**1.1553**	**1.5371**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.2522	0.1770	3.9000e-004	2.1900e-003	3.3000e-004	2.5200e-003	6.2000e-004	3.2000e-004	9.4000e-004		42.1601	42.1601	1.2600e-003	6.6700e-003	44.1780
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0354**	**0.3138**	**0.3072**	**5.2000e-004**	**5.4700e-003**	**5.3000e-004**	**5.9900e-003**	**1.5300e-003**	**5.0000e-004**	**2.0400e-003**		**56.1193**	**56.1193**	**3.7300e-003**	**9.1000e-003**	**58.9234**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1348	0.0000	1.1348	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.5841**	**13.5576**	**24.6739**	**0.0388**	**1.1348**	**0.0616**	**1.1965**	**0.1718**	**0.0616**	**0.2335**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0119	0.2522	0.1770	3.9000e-004	2.1900e-003	3.3000e-004	2.5200e-003	6.2000e-004	3.2000e-004	9.4000e-004		42.1601	42.1601	1.2600e-003	6.6700e-003	44.1780
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0354**	**0.3138**	**0.3072**	**5.2000e-004**	**5.4700e-003**	**5.3000e-004**	**5.9900e-003**	**1.5300e-003**	**5.0000e-004**	**2.0400e-003**		**56.1193**	**56.1193**	**3.7300e-003**	**9.1000e-003**	**58.9234**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0235	9.7800e-003	0.1032	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.7215	5.7215	2.4500e-003	1.1800e-003	6.1346
Total	**0.0261**	**0.0627**	**0.1417**	**1.4000e-004**	**3.5900e-003**	**2.1000e-004**	**3.7900e-003**	**1.0000e-003**	**1.9000e-004**	**1.1900e-003**		**14.5949**	**14.5949**	**2.7400e-003**	**2.5600e-003**	**15.4270**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.6967**	**12.1620**	**22.9600**	**0.0380**	**8.8457**	**0.0621**	**8.9077**	**4.5461**	**0.0621**	**4.6082**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0235	9.7800e-003	0.1032	6.0000e-005	2.7800e-003	1.0000e-004	2.8800e-003	7.6000e-004	9.0000e-005	8.5000e-004		5.7215	5.7215	2.4500e-003	1.1800e-003	6.1346
Total	**0.0261**	**0.0627**	**0.1417**	**1.4000e-004**	**3.5900e-003**	**2.1000e-004**	**3.7900e-003**	**1.0000e-003**	**1.9000e-004**	**1.1900e-003**		**14.5949**	**14.5949**	**2.7400e-003**	**2.5600e-003**	**15.4270**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0852	0.0000	7.0852	3.4251	0.0000	3.4251			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.0852**	**0.9409**	**8.0261**	**3.4251**	**0.8656**	**4.2907**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0500e-003	0.0647	0.0454	1.0000e-004	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	8.0000e-005	2.4000e-004		10.8103	10.8103	3.2000e-004	1.7100e-003	11.3277
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0265**	**0.1263**	**0.1756**	**2.3000e-004**	**3.8400e-003**	**2.9000e-004**	**4.1200e-003**	**1.0700e-003**	**2.6000e-004**	**1.3400e-003**		**24.7695**	**24.7695**	**2.7900e-003**	**4.1400e-003**	**26.0730**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.1884	0.0000	3.1884	1.5413	0.0000	1.5413			0.0000			0.0000
Off-Road	0.5200	10.3327	18.9906	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**0.5200**	**10.3327**	**18.9906**	**0.0297**	**3.1884**	**0.0484**	**3.2368**	**1.5413**	**0.0484**	**1.5897**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0500e-003	0.0647	0.0454	1.0000e-004	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	8.0000e-005	2.4000e-004		10.8103	10.8103	3.2000e-004	1.7100e-003	11.3277
Vendor	2.6200e-003	0.0529	0.0385	8.0000e-005	8.1000e-004	1.1000e-004	9.1000e-004	2.4000e-004	1.0000e-004	3.4000e-004		8.8734	8.8734	2.9000e-004	1.3800e-003	9.2923
Worker	0.0209	8.6900e-003	0.0917	5.0000e-005	2.4700e-003	9.0000e-005	2.5600e-003	6.7000e-004	8.0000e-005	7.6000e-004		5.0858	5.0858	2.1800e-003	1.0500e-003	5.4530
Total	**0.0265**	**0.1263**	**0.1756**	**2.3000e-004**	**3.8400e-003**	**2.9000e-004**	**4.1200e-003**	**1.0700e-003**	**2.6000e-004**	**1.3400e-003**		**24.7695**	**24.7695**	**2.7900e-003**	**4.1400e-003**	**26.0730**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.2909	0.2117	4.5000e-004	4.4400e-003	5.8000e-004	5.0200e-003	1.3400e-003	5.5000e-004	1.8900e-003		48.8038	48.8038	1.6000e-003	7.6000e-003	51.1078
Worker	0.0731	0.0304	0.3210	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		17.8003	17.8003	7.6100e-003	3.6700e-003	19.0855
Total	**0.0874**	**0.3214**	**0.5328**	**6.3000e-004**	**0.0131**	**9.0000e-004**	**0.0140**	**3.7000e-003**	**8.4000e-004**	**4.5500e-003**		**66.6041**	**66.6041**	**9.2100e-003**	**0.0113**	**70.1933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.5335**	**10.9122**	**17.8738**	**0.0269**		**0.0846**	**0.0846**		**0.0846**	**0.0846**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0144	0.2909	0.2117	4.5000e-004	4.4400e-003	5.8000e-004	5.0200e-003	1.3400e-003	5.5000e-004	1.8900e-003		48.8038	48.8038	1.6000e-003	7.6000e-003	51.1078
Worker	0.0731	0.0304	0.3210	1.8000e-004	8.6400e-003	3.2000e-004	8.9600e-003	2.3600e-003	2.9000e-004	2.6600e-003		17.8003	17.8003	7.6100e-003	3.6700e-003	19.0855
Total	**0.0874**	**0.3214**	**0.5328**	**6.3000e-004**	**0.0131**	**9.0000e-004**	**0.0140**	**3.7000e-003**	**8.4000e-004**	**4.5500e-003**		**66.6041**	**66.6041**	**9.2100e-003**	**0.0113**	**70.1933**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0134	0.2812	0.2185	4.4000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.3400e-003	2.7000e-004	1.6100e-003		47.0793	47.0793	1.5600e-003	7.3400e-003	49.3045
Worker	0.0672	0.0280	0.3083	1.7000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.2298	17.2298	7.0100e-003	3.4900e-003	18.4459
Total	**0.0807**	**0.3092**	**0.5268**	**6.1000e-004**	**0.0131**	**5.9000e-004**	**0.0137**	**3.7000e-003**	**5.5000e-004**	**4.2500e-003**		**64.3091**	**64.3091**	**8.5700e-003**	**0.0108**	**67.7504**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5335	10.9122	17.8738	0.0269		0.0846	0.0846		0.0846	0.0846	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.5335**	**10.9122**	**17.8738**	**0.0269**		**0.0846**	**0.0846**		**0.0846**	**0.0846**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0134	0.2812	0.2185	4.4000e-004	4.4400e-003	2.9000e-004	4.7300e-003	1.3400e-003	2.7000e-004	1.6100e-003		47.0793	47.0793	1.5600e-003	7.3400e-003	49.3045
Worker	0.0672	0.0280	0.3083	1.7000e-004	8.6400e-003	3.0000e-004	8.9400e-003	2.3600e-003	2.8000e-004	2.6400e-003		17.2298	17.2298	7.0100e-003	3.4900e-003	18.4459
Total	**0.0807**	**0.3092**	**0.5268**	**6.1000e-004**	**0.0131**	**5.9000e-004**	**0.0137**	**3.7000e-003**	**5.5000e-004**	**4.2500e-003**		**64.3091**	**64.3091**	**8.5700e-003**	**0.0108**	**67.7504**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0797**	**8.7903**	**12.1905**	**0.0189**		**0.4357**	**0.4357**		**0.4025**	**0.4025**		**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0240	0.0100	0.1101	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1535	6.1535	2.5000e-003	1.2500e-003	6.5878
Total	**0.0265**	**0.0611**	**0.1498**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7134**	**14.7134**	**2.7800e-003**	**2.5800e-003**	**15.5523**

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2913	7.8490	13.5323	0.0189		0.0293	0.0293		0.0293	0.0293	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1616					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.4529**	**7.8490**	**13.5323**	**0.0189**		**0.0293**	**0.0293**		**0.0293**	**0.0293**	**0.0000**	**1,805.4304**	**1,805.4304**	**0.5673**		**1,819.6122**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0240	0.0100	0.1101	6.0000e-005	3.0800e-003	1.1000e-004	3.1900e-003	8.4000e-004	1.0000e-004	9.4000e-004		6.1535	6.1535	2.5000e-003	1.2500e-003	6.5878
Total	**0.0265**	**0.0611**	**0.1498**	**1.4000e-004**	**3.8900e-003**	**1.6000e-004**	**4.0500e-003**	**1.0800e-003**	**1.5000e-004**	**1.2300e-003**		**14.7134**	**14.7134**	**2.7800e-003**	**2.5800e-003**	**15.5523**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**28.9238**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0144	6.0000e-003	0.0661	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.6921	3.6921	1.5000e-003	7.5000e-004	3.9527
Total	**0.0169**	**0.0571**	**0.1058**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2520**	**12.2520**	**1.7800e-003**	**2.0800e-003**	**12.9172**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.7321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**28.7866**	**1.0598**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4400e-003	0.0511	0.0397	8.0000e-005	8.1000e-004	5.0000e-005	8.6000e-004	2.4000e-004	5.0000e-005	2.9000e-004		8.5599	8.5599	2.8000e-004	1.3300e-003	8.9645
Worker	0.0144	6.0000e-003	0.0661	4.0000e-005	1.8500e-003	6.0000e-005	1.9200e-003	5.1000e-004	6.0000e-005	5.7000e-004		3.6921	3.6921	1.5000e-003	7.5000e-004	3.9527
Total	**0.0169**	**0.0571**	**0.1058**	**1.2000e-004**	**2.6600e-003**	**1.1000e-004**	**2.7800e-003**	**7.5000e-004**	**1.1000e-004**	**8.6000e-004**		**12.2520**	**12.2520**	**1.7800e-003**	**2.0800e-003**	**12.9172**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164
Unmitigated	0.1033	0.4026	0.6792	7.0000e-004	0.0138	6.4000e-004	0.0144	3.7100e-003	6.0000e-004	4.3200e-003		74.7386	74.7386	0.0104	0.0135	79.0164

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	70.00	70.00	70.00	4,591	4,591
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	1,705	1,705
Total	96.00	96.00	96.00	6,296	6,296

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	0.19	0.19	0.19	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077
NaturalGas Unmitigated	3.2300e-003	0.0293	0.0246	1.8000e-004		2.2300e-003	2.2300e-003		2.2300e-003	2.2300e-003		35.1985	35.1985	6.7000e-004	6.5000e-004	35.4077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	149.594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Unrefrigerated Warehouse-Rail	0.149594	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003		17.5992	17.5992	3.4000e-004	3.2000e-004	17.7038
Total		**3.2200e-003**	**0.0293**	**0.0246**	**1.8000e-004**		**2.2200e-003**	**2.2200e-003**		**2.2200e-003**	**2.2200e-003**		**35.1985**	**35.1985**	**6.8000e-004**	**6.4000e-004**	**35.4077**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Unmitigated	1.2373	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1417					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1300e-003	1.1000e-004	0.0122	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0262	0.0262	7.0000e-005		0.0279
Total	**1.2373**	**1.1000e-004**	**0.0122**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**		**0.0262**	**0.0262**	**7.0000e-005**		**0.0279**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

3rd and Central Warehouse LST Mitigated - South Coast AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Rough Terrain Forklifts	0.2115	2.7988	4.5746	6.9000e-003		0.0899	0.0899		0.0827	0.0827	0.0000	667.6069	667.6069	0.2159		673.0049
Total	**0.2115**	**2.7988**	**4.5746**	**6.9000e-003**		**0.0899**	**0.0899**		**0.0827**	**0.0827**	**0.0000**	**667.6069**	**667.6069**	**0.2159**		**673.0049**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity (hp)	Drive Motor Capacity (kW)	Facility Operation (hrs/day)	Vehicle Operation: Load Factor[4]	Vehicle Operation: (days/week)	Vehicle Operation: (weeks/yr)	Vehicle Operation: (hrs/year)	Electric Energy Consumption per Unit (kWhr/day/Unit)	Electric Energy Consumption per Unit (kWhr/yr/Unit)	Units	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)
Pallet Jack[1]	3,300	Drive Motor Capacity		0.7	8	0.2	7	52	582.4	1.12	407.68		0.00	0.00
		Lift Motor Capacity		0.8	8	0.05	7	52	145.6	0.32	116.48		0.00	0.00
Small Forklift[2]	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	5	88.00	32,032.00
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		20.00	7,280.00
Large Forklift[3]	7,000-11,000	Drive Motor Capacity	24	18	8	0.2	7	52	582.4	28.80	10,483.20		0.00	0.00
		Lift Motor Capacity	27	20	8	0.05	7	52	145.6	8.00	2,912.00		0.00	0.00
												Total	108.00	39,312.00

[1] Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJDsnUx19IvgquuJTz2DOx51UqkSAlg9VO22XpkzJZWyI-FmMiqFRaeRoCOqEQAvD_BwE

[2] Based on CAT Model EP12ANT - EP20ANT
https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt

[3] Based on CAT Model 2EPC7000 - 2EP11000
https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf

[4] Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption (kWhr/day)	Total Energy Consumption (kWhr/yr)	GHG Intensity Factors (lb/MWhr): CO2	CH4	N2O	CO_2e[1]	Annual GHG Emissions (Metric TPY): CO2	CH4	N2O	CO_2e
Pallet Jack	3,300	Drive Motor Capacity	0	0.00	390.98	0.033	0.004	392.997	0	0	0	0
		Lift Motor Capacity	0	0.00	390.98	0.033	0.004	392.997	0	0	0	0
Small Forklift	3,086-4,409	Drive Motor Capacity	88	32,032.00	390.98	0.033	0.004	392.997	5.68	0.00	0.00	5.71
		Lift Motor Capacity	20	7,280.00	390.98	0.033	0.004	392.997	1.29	0.00	0.00	1.30
Large Forklift	7,000-11,000	Drive Motor Capacity	0	0.00	390.98	0.033	0.004	392.997	0.00	0.00	0.00	0.00
		Lift Motor Capacity	0	0.00	390.98	0.033	0.004	392.997	0.00	0.00	0.00	0.00
								Total	6.97	0.00	0.00	7.01

[1] Based on CalEEMod 2020.4.0 default GHG intensity.

Appendix A-2

Construction and Operational Health Risk Assessments

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse HRA

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Distance based on line-volume source in AERMOD.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	HHD	9.1370e-003	0.65
tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	8.40	16.60
tblVehicleTrips	CC_TL	8.40	2.09
tblVehicleTrips	CNW_TL	6.90	16.60
tblVehicleTrips	CNW_TL	6.90	2.09

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CW_TL	16.60	2.09
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1456	1.3809	1.3129	2.2500e-003	0.1030	0.0688	0.1718	0.0429	0.0644	0.1073	0.0000	195.0089	195.0089	0.0490	5.0000e-004	196.3836
2023	0.3018	0.3849	0.4559	7.5000e-004	1.0000e-004	0.0186	0.0187	3.0000e-005	0.0174	0.0175	0.0000	64.3840	64.3840	0.0158	1.5000e-004	64.8255
Maximum	**0.3018**	**1.3809**	**1.3129**	**2.2500e-003**	**0.1030**	**0.0688**	**0.1718**	**0.0429**	**0.0644**	**0.1073**	**0.0000**	**195.0089**	**195.0089**	**0.0490**	**5.0000e-004**	**196.3836**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1456	1.3809	1.3129	2.2500e-003	0.0465	0.0688	0.1153	0.0193	0.0644	0.0838	0.0000	195.0087	195.0087	0.0490	5.0000e-004	196.3834
2023	0.3018	0.3849	0.4559	7.5000e-004	1.0000e-004	0.0186	0.0187	3.0000e-005	0.0174	0.0175	0.0000	64.3840	64.3840	0.0158	1.5000e-004	64.8254
Maximum	**0.3018**	**1.3809**	**1.3129**	**2.2500e-003**	**0.0465**	**0.0688**	**0.1153**	**0.0193**	**0.0644**	**0.0838**	**0.0000**	**195.0087**	**195.0087**	**0.0490**	**5.0000e-004**	**196.3834**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**54.78**	**0.00**	**29.65**	**54.85**	**0.00**	**18.86**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.7550	0.7550
2	**9-1-2022**	**11-30-2022**	0.5728	0.5728
3	**12-1-2022**	**2-28-2023**	0.5286	0.5286
4	**3-1-2023**	**5-31-2023**	0.3591	0.3591
		Highest	0.7550	0.7550

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2694**	**0.6161**	**0.9013**	**1.5900e-003**	**8.1100e-003**	**0.0172**	**0.0253**	**2.2800e-003**	**0.0158**	**0.0181**	**10.3769**	**200.0392**	**210.4161**	**3.5079**	**0.0147**	**302.4977**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2694**	**0.6161**	**0.9013**	**1.5900e-003**	**8.1100e-003**	**0.0172**	**0.0253**	**2.2800e-003**	**0.0158**	**0.0181**	**10.3769**	**200.0392**	**210.4161**	**3.5079**	**0.0147**	**302.4977**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	
5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	4.00	234.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	0.00	4.00	24.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	22.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	3.8200e-003	0.0000	3.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0252**	**0.0124**	**0.0377**	**3.8200e-003**	**0.0116**	**0.0154**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	2.4500e-003	1.7200e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3810	0.3810	1.0000e-005	6.0000e-005	0.3992
Vendor	3.0000e-005	5.2000e-004	3.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0803	0.0803	0.0000	1.0000e-005	0.0841
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**2.9700e-003**	**2.0900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4612**	**0.4612**	**1.0000e-005**	**7.0000e-005**	**0.4833**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0114	0.0000	0.0114	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0114**	**0.0124**	**0.0238**	**1.7200e-003**	**0.0116**	**0.0133**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	2.4500e-003	1.7200e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3810	0.3810	1.0000e-005	6.0000e-005	0.3992
Vendor	3.0000e-005	5.2000e-004	3.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0803	0.0803	0.0000	1.0000e-005	0.0841
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**2.9700e-003**	**2.0900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4612**	**0.4612**	**1.0000e-005**	**7.0000e-005**	**0.4833**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0491**	**4.0300e-003**	**0.0532**	**0.0253**	**3.7100e-003**	**0.0290**	**0.0000**	**8.3599**	**8.3599**	**2.7000e-003**	**0.0000**	**8.4274**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0201	0.0201	0.0000	0.0000	0.0210
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0000e-005**	**1.3000e-004**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0201**	**0.0201**	**0.0000**	**0.0000**	**0.0210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0221**	**4.0300e-003**	**0.0261**	**0.0114**	**3.7100e-003**	**0.0151**	**0.0000**	**8.3598**	**8.3598**	**2.7000e-003**	**0.0000**	**8.4274**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0201	0.0201	0.0000	0.0000	0.0210
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0000e-005**	**1.3000e-004**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0201**	**0.0201**	**0.0000**	**0.0000**	**0.0210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0283**	**3.7600e-003**	**0.0321**	**0.0137**	**3.4600e-003**	**0.0172**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0391	0.0391	0.0000	1.0000e-005	0.0409
Vendor	1.0000e-005	2.1000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0321	0.0321	0.0000	0.0000	0.0336
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.6000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0712**	**0.0712**	**0.0000**	**1.0000e-005**	**0.0746**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0128**	**3.7600e-003**	**0.0165**	**6.1700e-003**	**3.4600e-003**	**9.6300e-003**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0391	0.0391	0.0000	1.0000e-005	0.0409
Vendor	1.0000e-005	2.1000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0321	0.0321	0.0000	0.0000	0.0336
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.6000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0712**	**0.0712**	**0.0000**	**1.0000e-005**	**0.0746**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0352	139.0352	0.0333	0.0000	139.8679
Total	**0.1024**	**0.9369**	**0.9818**	**1.6200e-003**		**0.0485**	**0.0485**		**0.0457**	**0.0457**	**0.0000**	**139.0352**	**139.0352**	**0.0333**	**0.0000**	**139.8679**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0171	0.0123	3.0000e-005	2.6000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.6493	2.6493	9.0000e-005	4.1000e-004	2.7744
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0171**	**0.0123**	**3.0000e-005**	**2.6000e-004**	**3.0000e-005**	**3.0000e-004**	**8.0000e-005**	**3.0000e-005**	**1.1000e-004**	**0.0000**	**2.6493**	**2.6493**	**9.0000e-005**	**4.1000e-004**	**2.7744**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0350	139.0350	0.0333	0.0000	139.8677
Total	**0.1024**	**0.9369**	**0.9818**	**1.6200e-003**		**0.0485**	**0.0485**		**0.0457**	**0.0457**	**0.0000**	**139.0350**	**139.0350**	**0.0333**	**0.0000**	**139.8677**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0171	0.0123	3.0000e-005	2.6000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.6493	2.6493	9.0000e-005	4.1000e-004	2.7744
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0171**	**0.0123**	**3.0000e-005**	**2.6000e-004**	**3.0000e-005**	**3.0000e-004**	**8.0000e-005**	**3.0000e-005**	**1.1000e-004**	**0.0000**	**2.6493**	**2.6493**	**9.0000e-005**	**4.1000e-004**	**2.7744**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367
Total	**0.0315**	**0.2877**	**0.3249**	**5.4000e-004**		**0.0140**	**0.0140**		**0.0132**	**0.0132**	**0.0000**	**46.3610**	**46.3610**	**0.0110**	**0.0000**	**46.6367**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	5.4500e-003	4.2600e-003	1.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.8460	0.8460	3.0000e-005	1.3000e-004	0.8860
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**5.4500e-003**	**4.2600e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**0.8460**	**0.8460**	**3.0000e-005**	**1.3000e-004**	**0.8860**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366
Total	**0.0315**	**0.2877**	**0.3249**	**5.4000e-004**		**0.0140**	**0.0140**		**0.0132**	**0.0132**	**0.0000**	**46.3609**	**46.3609**	**0.0110**	**0.0000**	**46.6366**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	5.4500e-003	4.2600e-003	1.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.8460	0.8460	3.0000e-005	1.3000e-004	0.8860
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**5.4500e-003**	**4.2600e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**0.8460**	**0.8460**	**3.0000e-005**	**1.3000e-004**	**0.8860**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7100e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7100e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2603**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2603**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Unmitigated	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	18,473	18,473
Total	26.00	26.00	26.00	18,473	18,473

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	16.60	16.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	2.09	2.09	2.09	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

3rd and Central Warehouse HRA - South Coast AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
NaturalGas Mitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621
NaturalGas Unmitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Unmitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5566	2.8556	9.9800e-003	104.9200
Unmitigated	30.5566	2.8556	9.9800e-003	104.9200

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.3769	0.6133	0.0000	25.7083
Unmitigated	10.3769	0.6133	0.0000	25.7083

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	Diesel

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Rough Terrain Forklifts	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Total	**0.0386**	**0.5108**	**0.8349**	**1.2600e-003**		**0.0164**	**0.0164**		**0.0151**	**0.0151**	**0.0000**	**110.5297**	**110.5297**	**0.0358**	**0.0000**	**111.4234**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM10

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX (g/mile)	PM10_IDLEX (g/vehicle/day)	PM10_STREX (g/trip)	PM10_PMTW (g/mile)	PM10_PMBW (g/mile)	PM10_Combined - Calculated (g/mile)	PM10_IDLEX - Calculated (grams/Idle-min/vehicle)	Minutes per day	Vehicles per day	Idling Emissions g/day	lb/day	lb/year	lb/hour
SOUTH COAST AQMD	2023	HHDT	Aggreg	Aggregated	109818.6753	13648007.93	1133618.402		0.029866803					0.000273006	15	17	0.0696164	0.0001535	0.056018	0.0000064
SOUTH COAST AQMD	2023	LHDT1	Aggreg	Aggregated	125545.0822	4994753.051	1579199.198		0.027532868					0.015823487	15	2	0.4747046	0.0010465	0.381982	0.0000436
SOUTH COAST AQMD	2023	LHDT2	Aggreg	Aggregated	50003.13116	1935029.912	628976.486		0.028007378					0.014977208	15	2	0.4493162	0.0009906	0.361553	0.0000413
SOUTH COAST AQMD	2023	MHDT	Aggreg	Aggregated	122124.488	8120623.353	1221858.451		0.004327591					0.000738497	15	5	0.0553873	0.0001221	0.044569	0.0000051
																		Total	0.844122	0.000096

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN
Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day
SBUS	31.8	min/day

Source: EMFAC2017 (v1.0.3) Emission Rates
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX, RESTLOSS and DIURN

Region	Calendar Yi	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	NOx_RUNE	NOx_IDLEX	NOx_STREX	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STREX	CH4_RUNE	CH4_IDLEX	CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI	CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
SOUTH COA	2023	HHDT	Aggregate	Aggregate	Diesel	109818.7	13648008	1133618	2.447134	60.96427	2.432161	0.019814	0.028575	0	0.008873	0.026086	0.02071	0.029867	0	0.035491	0.060867	1328.725	12047.64	0	0.000887	0.22979	0	0.208857	1.893721	0	0.019088	4.947316	0	0	0	0	0	0.021731	5.632142	0	0	0	0	0	0.194617	72.40695	0	0.012553	0.11382	0
SOUTH COA	2023	LHDT1	Aggregate	Aggregate	Diesel	125545.1	4994753	1579199	1.360534	1.886536	0	0.01316	0.026342	0	0.003	0.03276	0.013755	0.027533	0	0.012	0.07644	461.7287	130.6842	0	0.003077	0.005098	0	0.072577	0.020542	0	0.066253	0.10976	0	0	0	0	0	0.075425	0.124954	0	0	0	0	0	0.359851	0.909745	0	0.004365	0.001235	0
SOUTH COA	2023	LHDT2	Aggregate	Aggregate	Diesel	50003.13	1935030	628976.5	1.204837	1.893637	0	0.014519	0.026796	0	0.003	0.03822	0.015175	0.028007	0	0.012	0.08918	509.2896	210.1316	0	0.002917	0.005098	0	0.080053	0.03303	0	0.062798	0.10976	0	0	0	0	0	0.071491	0.124954	0	0	0	0	0	0.335432	0.909745	0	0.004815	0.001986	0
SOUTH COA	2023	MHDT	Aggregate	Aggregate	Diesel	122124.5	8120623	1221858	1.136879	4.698568	2.14238	0.007097	0.00414	0	0.003	0.05586	0.007418	0.004328	0	0.012	0.13034	896.8996	770.1908	0	0.000354	0.003119	0	0.14098	0.121063	0	0.007627	0.067143	0	0	0	0	0	0.008682	0.076437	0	0	0	0	0	0.070457	2.427476	0	0.008473	0.007276	0

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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/5/2022
** File: F:\Lakes\3rd & Central\Construction\3rd&Central Construction\3rd&Central
Construction.ADI
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**
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** AERMOD Control Pathway
****************************************
**
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CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "3rd&Central Construction.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Construction Equipment and Vehicles
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 21
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** 479745.691, 3774020.231, 353.29, 3.40, 4.00
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** 479914.588, 3774042.682, 355.06, 3.40, 4.00
** 479846.891, 3774041.991, 354.08, 3.40, 4.00
** 479846.546, 3774082.057, 354.42, 3.40, 4.00
** 479757.089, 3774086.547, 353.51, 3.40, 4.00
** 479755.016, 3774028.521, 353.33, 3.40, 4.00
** 479904.226, 3774026.103, 354.82, 3.40, 4.00
** 479903.881, 3774035.429, 354.88, 3.40, 4.00
** 479836.875, 3774035.429, 353.90, 3.40, 4.00
** 479836.184, 3774073.077, 354.23, 3.40, 4.00
** 479766.760, 3774076.531, 353.41, 3.40, 4.00
** 479765.033, 3774038.537, 353.36, 3.40, 4.00
** 479824.441, 3774037.156, 353.79, 3.40, 4.00
** 479825.477, 3774064.442, 354.11, 3.40, 4.00
** 479774.704, 3774067.550, 353.44, 3.40, 4.00
** 479774.358, 3774047.863, 353.41, 3.40, 4.00
** 479814.079, 3774046.136, 353.70, 3.40, 4.00
** 479814.770, 3774055.807, 353.84, 3.40, 4.00
** 479782.993, 3774057.189, 353.51, 3.40, 4.00
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   LOCATION L0000002     VOLUME   479745.971 3774075.720 353.53
   LOCATION L0000003     VOLUME   479745.928 3774067.120 353.46
   LOCATION L0000004     VOLUME   479745.884 3774058.520 353.42
   LOCATION L0000005     VOLUME   479745.841 3774049.920 353.40
   LOCATION L0000006     VOLUME   479745.797 3774041.320 353.36
   LOCATION L0000007     VOLUME   479745.754 3774032.720 353.32
   LOCATION L0000008     VOLUME   479745.710 3774024.120 353.29
   LOCATION L0000009     VOLUME   479750.401 3774020.116 353.30
   LOCATION L0000010     VOLUME   479758.998 3774019.904 353.34
   LOCATION L0000011     VOLUME   479767.595 3774019.693 353.39
   LOCATION L0000012     VOLUME   479776.193 3774019.481 353.43
   LOCATION L0000013     VOLUME   479784.790 3774019.270 353.48
   LOCATION L0000014     VOLUME   479793.388 3774019.059 353.53
   LOCATION L0000015     VOLUME   479801.985 3774018.847 353.57
   LOCATION L0000016     VOLUME   479810.582 3774018.636 353.65
   LOCATION L0000017     VOLUME   479819.180 3774018.424 353.76
   LOCATION L0000018     VOLUME   479827.777 3774018.213 353.89
   LOCATION L0000019     VOLUME   479836.375 3774018.002 353.92
   LOCATION L0000020     VOLUME   479844.972 3774017.790 353.88
   LOCATION L0000021     VOLUME   479853.569 3774017.579 353.93
   LOCATION L0000022     VOLUME   479862.167 3774017.367 354.04
   LOCATION L0000023     VOLUME   479870.764 3774017.156 354.17
   LOCATION L0000024     VOLUME   479879.362 3774016.944 354.31
   LOCATION L0000025     VOLUME   479887.959 3774016.733 354.42
   LOCATION L0000026     VOLUME   479896.556 3774016.522 354.55
   LOCATION L0000027     VOLUME   479905.154 3774016.310 354.72
   LOCATION L0000028     VOLUME   479913.751 3774016.099 354.90
   LOCATION L0000029     VOLUME   479914.348 3774024.194 354.99
   LOCATION L0000030     VOLUME   479914.460 3774032.793 355.04
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LOCATION	L0000031	VOLUME	479914.572	3774041.393	355.05
LOCATION	L0000032	VOLUME	479907.278	3774042.607	354.98
LOCATION	L0000033	VOLUME	479898.678	3774042.520	354.88
LOCATION	L0000034	VOLUME	479890.079	3774042.432	354.81
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LOCATION	L0000036	VOLUME	479872.880	3774042.256	354.55
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LOCATION	L0000038	VOLUME	479855.681	3774042.081	354.24
LOCATION	L0000039	VOLUME	479847.081	3774041.993	354.13
LOCATION	L0000040	VOLUME	479846.819	3774050.401	354.27
LOCATION	L0000041	VOLUME	479846.745	3774059.001	354.39
LOCATION	L0000042	VOLUME	479846.670	3774067.600	354.41
LOCATION	L0000043	VOLUME	479846.596	3774076.200	354.42
LOCATION	L0000044	VOLUME	479843.806	3774082.194	354.41
LOCATION	L0000045	VOLUME	479835.217	3774082.626	354.33
LOCATION	L0000046	VOLUME	479826.628	3774083.057	354.24
LOCATION	L0000047	VOLUME	479818.039	3774083.488	354.13
LOCATION	L0000048	VOLUME	479809.450	3774083.919	354.03
LOCATION	L0000049	VOLUME	479800.860	3774084.350	353.91
LOCATION	L0000050	VOLUME	479792.271	3774084.781	353.76
LOCATION	L0000051	VOLUME	479783.682	3774085.212	353.67
LOCATION	L0000052	VOLUME	479775.093	3774085.643	353.61
LOCATION	L0000053	VOLUME	479766.504	3774086.074	353.57
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LOCATION	L0000058	VOLUME	479755.891	3774052.995	353.36
LOCATION	L0000059	VOLUME	479755.584	3774044.401	353.35
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LOCATION	L0000062	VOLUME	479764.925	3774028.360	353.36
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LOCATION	L0000064	VOLUME	479782.123	3774028.082	353.45
LOCATION	L0000065	VOLUME	479790.722	3774027.942	353.49
LOCATION	L0000066	VOLUME	479799.321	3774027.803	353.53
LOCATION	L0000067	VOLUME	479807.920	3774027.664	353.59
LOCATION	L0000068	VOLUME	479816.518	3774027.524	353.70
LOCATION	L0000069	VOLUME	479825.117	3774027.385	353.81
LOCATION	L0000070	VOLUME	479833.716	3774027.246	353.92
LOCATION	L0000071	VOLUME	479842.315	3774027.106	353.88
LOCATION	L0000072	VOLUME	479850.914	3774026.967	353.95
LOCATION	L0000073	VOLUME	479859.513	3774026.828	354.05
LOCATION	L0000074	VOLUME	479868.112	3774026.688	354.19
LOCATION	L0000075	VOLUME	479876.711	3774026.549	354.38
LOCATION	L0000076	VOLUME	479885.309	3774026.410	354.54
LOCATION	L0000077	VOLUME	479893.908	3774026.270	354.65
LOCATION	L0000078	VOLUME	479902.507	3774026.131	354.79
LOCATION	L0000079	VOLUME	479903.972	3774032.979	354.88
LOCATION	L0000080	VOLUME	479897.733	3774035.429	354.81

LOCATION	L0000081	VOLUME	479889.133	3774035.429	354.73
LOCATION	L0000082	VOLUME	479880.533	3774035.429	354.60
LOCATION	L0000083	VOLUME	479871.933	3774035.429	354.41
LOCATION	L0000084	VOLUME	479863.333	3774035.429	354.23
LOCATION	L0000085	VOLUME	479854.733	3774035.429	354.11
LOCATION	L0000086	VOLUME	479846.133	3774035.429	354.01
LOCATION	L0000087	VOLUME	479837.533	3774035.429	353.93
LOCATION	L0000088	VOLUME	479836.729	3774043.370	354.01
LOCATION	L0000089	VOLUME	479836.571	3774051.968	354.14
LOCATION	L0000090	VOLUME	479836.413	3774060.567	354.26
LOCATION	L0000091	VOLUME	479836.256	3774069.165	354.27
LOCATION	L0000092	VOLUME	479831.502	3774073.310	354.22
LOCATION	L0000093	VOLUME	479822.912	3774073.737	354.11
LOCATION	L0000094	VOLUME	479814.323	3774074.164	354.01
LOCATION	L0000095	VOLUME	479805.734	3774074.592	353.92
LOCATION	L0000096	VOLUME	479797.144	3774075.019	353.78
LOCATION	L0000097	VOLUME	479788.555	3774075.446	353.64
LOCATION	L0000098	VOLUME	479779.966	3774075.874	353.56
LOCATION	L0000099	VOLUME	479771.376	3774076.301	353.48
LOCATION	L0000100	VOLUME	479766.579	3774072.557	353.42
LOCATION	L0000101	VOLUME	479766.189	3774063.966	353.39
LOCATION	L0000102	VOLUME	479765.798	3774055.375	353.39
LOCATION	L0000103	VOLUME	479765.408	3774046.783	353.38
LOCATION	L0000104	VOLUME	479765.378	3774038.529	353.37
LOCATION	L0000105	VOLUME	479773.976	3774038.329	353.41
LOCATION	L0000106	VOLUME	479782.573	3774038.129	353.47
LOCATION	L0000107	VOLUME	479791.171	3774037.929	353.52
LOCATION	L0000108	VOLUME	479799.769	3774037.729	353.56
LOCATION	L0000109	VOLUME	479808.367	3774037.530	353.62
LOCATION	L0000110	VOLUME	479816.964	3774037.330	353.72
LOCATION	L0000111	VOLUME	479824.483	3774038.277	353.81
LOCATION	L0000112	VOLUME	479824.809	3774046.870	353.93
LOCATION	L0000113	VOLUME	479825.136	3774055.464	354.06
LOCATION	L0000114	VOLUME	479825.462	3774064.058	354.13
LOCATION	L0000115	VOLUME	479817.276	3774064.944	354.02
LOCATION	L0000116	VOLUME	479808.692	3774065.469	353.92
LOCATION	L0000117	VOLUME	479800.108	3774065.995	353.78
LOCATION	L0000118	VOLUME	479791.524	3774066.521	353.64
LOCATION	L0000119	VOLUME	479782.941	3774067.046	353.54
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LOCATION	L0000121	VOLUME	479774.547	3774058.604	353.44
LOCATION	L0000122	VOLUME	479774.396	3774050.005	353.44
LOCATION	L0000123	VOLUME	479780.810	3774047.582	353.49
LOCATION	L0000124	VOLUME	479789.402	3774047.209	353.55
LOCATION	L0000125	VOLUME	479797.994	3774046.835	353.62
LOCATION	L0000126	VOLUME	479806.585	3774046.462	353.68
LOCATION	L0000127	VOLUME	479814.157	3774047.233	353.78
LOCATION	L0000128	VOLUME	479814.766	3774055.807	353.91
LOCATION	L0000129	VOLUME	479806.174	3774056.181	353.79
LOCATION	L0000130	VOLUME	479797.582	3774056.554	353.68

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** Source Parameters **
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   SRCPARAM L0000005     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000006     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000008     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000009     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000010     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000011     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000012     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000013     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000016     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000027     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000029     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000030     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000031     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000032     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000033     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000034     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000035     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000036     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000037     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000038     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000039     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000040     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000041     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000043     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000044     0.0076335878      3.40      4.00      3.16
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   SRCPARAM L0000046     0.0076335878      3.40      4.00      3.16
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SRCPARAM	L0000050	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000051	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000052	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000053	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000054	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000055	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000056	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000057	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000058	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000059	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000060	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000061	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000062	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000063	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000064	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000065	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000066	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000067	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000068	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000069	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000070	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000071	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000072	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000073	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000074	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000075	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000076	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000077	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000078	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000079	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000080	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000081	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000082	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000083	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000084	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000085	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000086	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000087	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000088	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000089	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000090	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000091	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000092	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000093	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000094	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000095	0.0076335878	3.40	4.00	3.16
SRCPARAM	L0000096	0.0076335878	3.40	4.00	3.16

```
   SRCPARAM L0000097     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000098     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000099     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000100     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000101     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000102     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000103     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000104     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000105     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000106     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000107     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000108     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000109     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000110     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000111     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000112     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000113     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000114     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000115     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000116     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000117     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000118     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000119     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000120     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000121     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000122     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000123     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000124     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000125     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000126     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000127     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000128     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000129     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000130     0.0076335878      3.40      4.00      3.16
   SRCPARAM L0000131     0.0076335878      3.40      4.00      3.16
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "3rd&Central Construction.rou"
RE FINISHED
**
****************************************
```

```
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
   PROFFILE ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "3rd&Central Construction.AD\01H1GALL.PLT" 31
   PLOTFILE PERIOD ALL "3rd&Central Construction.AD\PE00GALL.PLT" 32
   SUMMFILE "3rd&Central 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     360       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     360       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

```
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   131 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        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:    131 Source(s);       1 Source Group(s); and     887
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
```

```
                and:    131 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      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =   481.00 ;  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:   3rd&Central Construction.err

 **File for Summary of Results:   3rd&Central Construction.sum

 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE   2
 *** 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
L0000001	0	0.76336E-02	479746.0	3774084.3	353.6	3.40	4.00	3.16	YES	
L0000002	0	0.76336E-02	479746.0	3774075.7	353.5	3.40	4.00	3.16	YES	
L0000003	0	0.76336E-02	479745.9	3774067.1	353.5	3.40	4.00	3.16	YES	
L0000004	0	0.76336E-02	479745.9	3774058.5	353.4	3.40	4.00	3.16	YES	
L0000005	0	0.76336E-02	479745.8	3774049.9	353.4	3.40	4.00	3.16	YES	
L0000006	0	0.76336E-02	479745.8	3774041.3	353.4	3.40	4.00	3.16	YES	
L0000007	0	0.76336E-02	479745.8	3774032.7	353.3	3.40	4.00	3.16	YES	
L0000008	0	0.76336E-02	479745.7	3774024.1	353.3	3.40	4.00	3.16	YES	
L0000009	0	0.76336E-02	479750.4	3774020.1	353.3	3.40	4.00	3.16	YES	
L0000010	0	0.76336E-02	479759.0	3774019.9	353.3	3.40	4.00	3.16	YES	
L0000011	0	0.76336E-02	479767.6	3774019.7	353.4	3.40	4.00	3.16	YES	
L0000012	0	0.76336E-02	479776.2	3774019.5	353.4	3.40	4.00	3.16	YES	
L0000013	0	0.76336E-02	479784.8	3774019.3	353.5	3.40	4.00	3.16	YES	
L0000014	0	0.76336E-02	479793.4	3774019.1	353.5	3.40	4.00	3.16	YES	
L0000015	0	0.76336E-02	479802.0	3774018.8	353.6	3.40	4.00	3.16	YES	
L0000016	0	0.76336E-02	479810.6	3774018.6	353.7	3.40	4.00	3.16	YES	
L0000017	0	0.76336E-02	479819.2	3774018.4	353.8	3.40	4.00	3.16	YES	
L0000018	0	0.76336E-02	479827.8	3774018.2	353.9	3.40	4.00	3.16	YES	
L0000019	0	0.76336E-02	479836.4	3774018.0	353.9	3.40	4.00			

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3.16     YES
 L0000020         0   0.76336E-02  479845.0 3774017.8   353.9     3.40     4.00
3.16     YES
 L0000021         0   0.76336E-02  479853.6 3774017.6   353.9     3.40     4.00
3.16     YES
 L0000022         0   0.76336E-02  479862.2 3774017.4   354.0     3.40     4.00
3.16     YES
 L0000023         0   0.76336E-02  479870.8 3774017.2   354.2     3.40     4.00
3.16     YES
 L0000024         0   0.76336E-02  479879.4 3774016.9   354.3     3.40     4.00
3.16     YES
 L0000025         0   0.76336E-02  479888.0 3774016.7   354.4     3.40     4.00
3.16     YES
 L0000026         0   0.76336E-02  479896.6 3774016.5   354.6     3.40     4.00
3.16     YES
 L0000027         0   0.76336E-02  479905.2 3774016.3   354.7     3.40     4.00
3.16     YES
 L0000028         0   0.76336E-02  479913.8 3774016.1   354.9     3.40     4.00
3.16     YES
 L0000029         0   0.76336E-02  479914.3 3774024.2   355.0     3.40     4.00
3.16     YES
 L0000030         0   0.76336E-02  479914.5 3774032.8   355.0     3.40     4.00
3.16     YES
 L0000031         0   0.76336E-02  479914.6 3774041.4   355.1     3.40     4.00
3.16     YES
 L0000032         0   0.76336E-02  479907.3 3774042.6   355.0     3.40     4.00
3.16     YES
 L0000033         0   0.76336E-02  479898.7 3774042.5   354.9     3.40     4.00
3.16     YES
 L0000034         0   0.76336E-02  479890.1 3774042.4   354.8     3.40     4.00
3.16     YES
 L0000035         0   0.76336E-02  479881.5 3774042.3   354.7     3.40     4.00
3.16     YES
 L0000036         0   0.76336E-02  479872.9 3774042.3   354.6     3.40     4.00
3.16     YES
 L0000037         0   0.76336E-02  479864.3 3774042.2   354.4     3.40     4.00
3.16     YES
 L0000038         0   0.76336E-02  479855.7 3774042.1   354.2     3.40     4.00
3.16     YES
 L0000039         0   0.76336E-02  479847.1 3774042.0   354.1     3.40     4.00
3.16     YES
 L0000040         0   0.76336E-02  479846.8 3774050.4   354.3     3.40     4.00
3.16     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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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	EMISSION RATE SCALAR VARY BY
L0000041	0	0.76336E-02	479846.7	3774059.0	354.4	3.40	4.00	3.16	YES	
L0000042	0	0.76336E-02	479846.7	3774067.6	354.4	3.40	4.00	3.16	YES	
L0000043	0	0.76336E-02	479846.6	3774076.2	354.4	3.40	4.00	3.16	YES	
L0000044	0	0.76336E-02	479843.8	3774082.2	354.4	3.40	4.00	3.16	YES	
L0000045	0	0.76336E-02	479835.2	3774082.6	354.3	3.40	4.00	3.16	YES	
L0000046	0	0.76336E-02	479826.6	3774083.1	354.2	3.40	4.00	3.16	YES	
L0000047	0	0.76336E-02	479818.0	3774083.5	354.1	3.40	4.00	3.16	YES	
L0000048	0	0.76336E-02	479809.5	3774083.9	354.0	3.40	4.00	3.16	YES	
L0000049	0	0.76336E-02	479800.9	3774084.3	353.9	3.40	4.00	3.16	YES	
L0000050	0	0.76336E-02	479792.3	3774084.8	353.8	3.40	4.00	3.16	YES	
L0000051	0	0.76336E-02	479783.7	3774085.2	353.7	3.40	4.00	3.16	YES	
L0000052	0	0.76336E-02	479775.1	3774085.6	353.6	3.40	4.00	3.16	YES	
L0000053	0	0.76336E-02	479766.5	3774086.1	353.6	3.40	4.00	3.16	YES	
L0000054	0	0.76336E-02	479757.9	3774086.5	353.6	3.40	4.00	3.16	YES	
L0000055	0	0.76336E-02	479756.8	3774078.8	353.5	3.40	4.00	3.16	YES	
L0000056	0	0.76336E-02	479756.5	3774070.2	353.4	3.40	4.00	3.16	YES	
L0000057	0	0.76336E-02	479756.2	3774061.6	353.4	3.40	4.00	3.16	YES	
L0000058	0	0.76336E-02	479755.9	3774053.0	353.4	3.40	4.00	3.16	YES	
L0000059	0	0.76336E-02	479755.6	3774044.4	353.4	3.40	4.00			

```
3.16     YES
 L0000060         0   0.76336E-02  479755.3 3774035.8   353.3     3.40     4.00
3.16     YES
 L0000061         0   0.76336E-02  479756.3 3774028.5   353.3     3.40     4.00
3.16     YES
 L0000062         0   0.76336E-02  479764.9 3774028.4   353.4     3.40     4.00
3.16     YES
 L0000063         0   0.76336E-02  479773.5 3774028.2   353.4     3.40     4.00
3.16     YES
 L0000064         0   0.76336E-02  479782.1 3774028.1   353.4     3.40     4.00
3.16     YES
 L0000065         0   0.76336E-02  479790.7 3774027.9   353.5     3.40     4.00
3.16     YES
 L0000066         0   0.76336E-02  479799.3 3774027.8   353.5     3.40     4.00
3.16     YES
 L0000067         0   0.76336E-02  479807.9 3774027.7   353.6     3.40     4.00
3.16     YES
 L0000068         0   0.76336E-02  479816.5 3774027.5   353.7     3.40     4.00
3.16     YES
 L0000069         0   0.76336E-02  479825.1 3774027.4   353.8     3.40     4.00
3.16     YES
 L0000070         0   0.76336E-02  479833.7 3774027.2   353.9     3.40     4.00
3.16     YES
 L0000071         0   0.76336E-02  479842.3 3774027.1   353.9     3.40     4.00
3.16     YES
 L0000072         0   0.76336E-02  479850.9 3774027.0   353.9     3.40     4.00
3.16     YES
 L0000073         0   0.76336E-02  479859.5 3774026.8   354.1     3.40     4.00
3.16     YES
 L0000074         0   0.76336E-02  479868.1 3774026.7   354.2     3.40     4.00
3.16     YES
 L0000075         0   0.76336E-02  479876.7 3774026.5   354.4     3.40     4.00
3.16     YES
 L0000076         0   0.76336E-02  479885.3 3774026.4   354.5     3.40     4.00
3.16     YES
 L0000077         0   0.76336E-02  479893.9 3774026.3   354.7     3.40     4.00
3.16     YES
 L0000078         0   0.76336E-02  479902.5 3774026.1   354.8     3.40     4.00
3.16     YES
 L0000079         0   0.76336E-02  479904.0 3774033.0   354.9     3.40     4.00
3.16     YES
 L0000080         0   0.76336E-02  479897.7 3774035.4   354.8     3.40     4.00
3.16     YES
```

*** 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
L0000081	0	0.76336E-02	479889.1	3774035.4	354.7	3.40	4.00	3.16	YES	
L0000082	0	0.76336E-02	479880.5	3774035.4	354.6	3.40	4.00	3.16	YES	
L0000083	0	0.76336E-02	479871.9	3774035.4	354.4	3.40	4.00	3.16	YES	
L0000084	0	0.76336E-02	479863.3	3774035.4	354.2	3.40	4.00	3.16	YES	
L0000085	0	0.76336E-02	479854.7	3774035.4	354.1	3.40	4.00	3.16	YES	
L0000086	0	0.76336E-02	479846.1	3774035.4	354.0	3.40	4.00	3.16	YES	
L0000087	0	0.76336E-02	479837.5	3774035.4	353.9	3.40	4.00	3.16	YES	
L0000088	0	0.76336E-02	479836.7	3774043.4	354.0	3.40	4.00	3.16	YES	
L0000089	0	0.76336E-02	479836.6	3774052.0	354.1	3.40	4.00	3.16	YES	
L0000090	0	0.76336E-02	479836.4	3774060.6	354.3	3.40	4.00	3.16	YES	
L0000091	0	0.76336E-02	479836.3	3774069.2	354.3	3.40	4.00	3.16	YES	
L0000092	0	0.76336E-02	479831.5	3774073.3	354.2	3.40	4.00	3.16	YES	
L0000093	0	0.76336E-02	479822.9	3774073.7	354.1	3.40	4.00	3.16	YES	
L0000094	0	0.76336E-02	479814.3	3774074.2	354.0	3.40	4.00	3.16	YES	
L0000095	0	0.76336E-02	479805.7	3774074.6	353.9	3.40	4.00	3.16	YES	
L0000096	0	0.76336E-02	479797.1	3774075.0	353.8	3.40	4.00	3.16	YES	
L0000097	0	0.76336E-02	479788.6	3774075.4	353.6	3.40	4.00	3.16	YES	
L0000098	0	0.76336E-02	479780.0	3774075.9	353.6	3.40	4.00	3.16	YES	
L0000099	0	0.76336E-02	479771.4	3774076.3	353.5	3.40	4.00			

```
3.16     YES
 L0000100         0   0.76336E-02  479766.6 3774072.6   353.4     3.40     4.00
3.16     YES
 L0000101         0   0.76336E-02  479766.2 3774064.0   353.4     3.40     4.00
3.16     YES
 L0000102         0   0.76336E-02  479765.8 3774055.4   353.4     3.40     4.00
3.16     YES
 L0000103         0   0.76336E-02  479765.4 3774046.8   353.4     3.40     4.00
3.16     YES
 L0000104         0   0.76336E-02  479765.4 3774038.5   353.4     3.40     4.00
3.16     YES
 L0000105         0   0.76336E-02  479774.0 3774038.3   353.4     3.40     4.00
3.16     YES
 L0000106         0   0.76336E-02  479782.6 3774038.1   353.5     3.40     4.00
3.16     YES
 L0000107         0   0.76336E-02  479791.2 3774037.9   353.5     3.40     4.00
3.16     YES
 L0000108         0   0.76336E-02  479799.8 3774037.7   353.6     3.40     4.00
3.16     YES
 L0000109         0   0.76336E-02  479808.4 3774037.5   353.6     3.40     4.00
3.16     YES
 L0000110         0   0.76336E-02  479817.0 3774037.3   353.7     3.40     4.00
3.16     YES
 L0000111         0   0.76336E-02  479824.5 3774038.3   353.8     3.40     4.00
3.16     YES
 L0000112         0   0.76336E-02  479824.8 3774046.9   353.9     3.40     4.00
3.16     YES
 L0000113         0   0.76336E-02  479825.1 3774055.5   354.1     3.40     4.00
3.16     YES
 L0000114         0   0.76336E-02  479825.5 3774064.1   354.1     3.40     4.00
3.16     YES
 L0000115         0   0.76336E-02  479817.3 3774064.9   354.0     3.40     4.00
3.16     YES
 L0000116         0   0.76336E-02  479808.7 3774065.5   353.9     3.40     4.00
3.16     YES
 L0000117         0   0.76336E-02  479800.1 3774066.0   353.8     3.40     4.00
3.16     YES
 L0000118         0   0.76336E-02  479791.5 3774066.5   353.6     3.40     4.00
3.16     YES
 L0000119         0   0.76336E-02  479782.9 3774067.0   353.5     3.40     4.00
3.16     YES
 L0000120         0   0.76336E-02  479774.7 3774067.2   353.5     3.40     4.00
3.16     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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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	EMISSION RATE SCALAR VARY BY
L0000121	0	0.76336E-02	479774.5	3774058.6	353.4	3.40	4.00	3.16	YES	
L0000122	0	0.76336E-02	479774.4	3774050.0	353.4	3.40	4.00	3.16	YES	
L0000123	0	0.76336E-02	479780.8	3774047.6	353.5	3.40	4.00	3.16	YES	
L0000124	0	0.76336E-02	479789.4	3774047.2	353.6	3.40	4.00	3.16	YES	
L0000125	0	0.76336E-02	479798.0	3774046.8	353.6	3.40	4.00	3.16	YES	
L0000126	0	0.76336E-02	479806.6	3774046.5	353.7	3.40	4.00	3.16	YES	
L0000127	0	0.76336E-02	479814.2	3774047.2	353.8	3.40	4.00	3.16	YES	
L0000128	0	0.76336E-02	479814.8	3774055.8	353.9	3.40	4.00	3.16	YES	
L0000129	0	0.76336E-02	479806.2	3774056.2	353.8	3.40	4.00	3.16	YES	
L0000130	0	0.76336E-02	479797.6	3774056.6	353.7	3.40	4.00	3.16	YES	
L0000131	0	0.76336E-02	479789.0	3774056.9	353.6	3.40	4.00	3.16	YES	

*** 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    ,

             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    , L0000039    , L0000040    ,

             L0000041    , L0000042    , L0000043    , L0000044    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    , L0000103    , L0000104    ,

             L0000105    , L0000106    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

             L0000121    , L0000122    , L0000123    , L0000124    , L0000125    ,
L0000126    , L0000127    , L0000128    ,

             L0000129    , L0000130    , L0000131    ,
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
2035210.	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, L0000029, L0000030, L0000031, L0000032,
	L0000033	L0000034, L0000035, L0000036, L0000037, L0000038, L0000039, L0000040,
	L0000041	L0000042, L0000043, L0000044, L0000045, L0000046, L0000047, L0000048,
	L0000049	L0000050, L0000051, L0000052, L0000053, L0000054, L0000055, L0000056,
	L0000057	L0000058, L0000059, L0000060, L0000061, L0000062, L0000063, L0000064,
	L0000065	L0000066, L0000067, L0000068, L0000069, L0000070, L0000071, L0000072,
	L0000073	L0000074, L0000075, L0000076, L0000077, L0000078, L0000079, L0000080,
	L0000081	L0000082, L0000083, L0000084, L0000085, L0000086, L0000087, L0000088,
	L0000089	L0000090, L0000091, L0000092, L0000093,

L0000094 , L0000095 , L0000096 ,

L0000097 , L0000098 , L0000099 , L0000100 , L0000101 ,
L0000102 , L0000103 , L0000104 ,

L0000105 , L0000106 , L0000107 , L0000108 , L0000109 ,
L0000110 , L0000111 , L0000112 ,

L0000113 , L0000114 , L0000115 , L0000116 , L0000117 ,
L0000118 , L0000119 , L0000120 ,

L0000121 , L0000122 , L0000123 , L0000124 , L0000125 ,
L0000126 , L0000127 , L0000128 ,

L0000129 , L0000130 , L0000131 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479147.2, 479186.1, 479225.0, 479263.8, 479302.7, 479341.5, 479380.3, 479419.2, 479458.0, 479496.9,
479535.8, 479574.6, 479613.5, 479652.3, 479691.2, 479730.0, 479768.8, 479807.7, 479846.5, 479885.4,
479924.2,

*** Y-COORDINATES OF GRID ***
(METERS)

3774220.3, 3774259.0, 3774297.6, 3774336.2, 3774374.8, 3774413.4, 3774452.0, 3774490.6, 3774529.2, 3774567.8,
3774606.4, 3774645.1, 3774683.7, 3774722.3, 3774760.9, 3774799.5, 3774838.1, 3774876.7, 3774915.3, 3774953.9,
3774992.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479147.25	479186.10	479224.95	479263.80	479302.65	479341.50	479380.35	479419.20	479458.05
3774992.55	350.80	351.10	351.40	351.70	352.20	352.60	353.00	353.50	353.90
3774953.94	350.70	350.90	351.20	351.50	351.90	352.30	352.70	353.10	353.50
3774915.33	350.60	351.00	351.30	351.60	351.90	352.30	352.70	353.10	353.60
3774876.72	350.60	351.20	351.60	351.90	352.30	352.60	352.90	353.30	353.70
3774838.11	350.40	351.10	351.50	351.80	352.20	352.70	353.00	353.30	353.50
3774799.50	350.40	351.00	351.30	351.60	352.00	352.50	353.00	353.40	353.70
3774760.89	350.30	350.90	351.30	351.60	352.00	352.40	352.70	353.00	353.30
3774722.28	350.20	350.80	351.20	351.50	351.80	352.20	352.10	352.40	352.90
3774683.67	350.10	350.50	350.80	351.10	351.40	351.80	351.90	352.70	353.20
3774645.06	350.00	350.40	350.60	351.00	351.30	351.70	351.70	352.30	352.80
3774606.45	349.90	350.40	350.70	351.20	351.30	351.80	351.70	352.10	352.50
3774567.84	349.90	350.40	350.70	351.10	351.40	351.90	351.90	352.50	352.80
3774529.23	349.80	350.50	350.80	351.20	351.70	352.10	352.00	352.40	352.70
3774490.62	349.90	350.20	350.60	351.10	351.40	351.90	352.40	352.40	352.80
3774452.01	350.00	350.30	350.60	350.90	351.20	351.80	352.30	352.70	353.00
3774413.40	350.10	350.30	350.50	350.80	351.20	351.60	352.00	352.30	352.70
3774374.79	350.00	350.30	350.60	350.90	351.20	351.70	352.00	352.30	352.70
3774336.18	350.00	350.20	350.40	350.70	351.10	351.70	352.00	352.20	352.40

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  3774297.57 |        349.90       350.20       350.50       350.80       351.10
  351.60       351.90       352.10       352.30
  3774258.96 |        349.80       350.10       350.30       350.70       351.00
  351.50       351.70       352.00       352.20
  3774220.35 |        349.70       350.00       350.20       350.60       350.90
  351.30       351.60       352.00       352.40
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                                * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479496.90    479535.75    479574.60    479613.45    479652.30
479691.15    479730.00    479768.85    479807.70
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774992.55 |        354.20       354.30       354.70       355.20       355.70
  356.00       356.70       356.80       357.00
  3774953.94 |        353.80       354.30       355.20       355.30       355.40
  355.40       355.70       356.60       356.80
  3774915.33 |        354.00       354.50       354.90       355.00       355.10
  355.20       355.70       356.70       357.00
  3774876.72 |        354.10       354.50       355.10       355.30       355.40
  355.40       355.60       356.30       356.80
  3774838.11 |        353.90       354.30       354.60       355.20       355.50
  355.90       356.10       356.30       356.70
  3774799.50 |        353.90       354.20       354.80       355.10       355.40
  355.60       355.90       356.30       356.90
  3774760.89 |        353.80       354.00       354.30       354.80       355.10
  355.40       355.60       356.50       356.90
  3774722.28 |        353.50       353.70       354.10       354.50       354.80
  355.20       355.60       356.50       356.70
  3774683.67 |        353.50       353.60       354.10       354.40       354.90
  355.10       355.50       356.00       356.40
  3774645.06 |        353.30       353.40       354.00       354.30       354.70
  354.90       355.40       355.80       356.10
  3774606.45 |        352.90       353.20       353.70       354.10       354.60
  354.80       355.20       356.00       356.30
  3774567.84 |        353.30       353.50       353.90       354.30       354.70
  354.80       355.00       356.00       356.20
  3774529.23 |        353.10       353.50       353.90       354.20       354.50
```

354.50 354.90 355.90 356.20
3774490.62 | 353.30 353.70 354.10 354.40 354.50
354.60 354.80 355.80 356.00
3774452.01 | 353.30 353.70 354.00 354.30 354.60
354.90 355.20 355.60 355.80
3774413.40 | 353.00 353.30 353.70 353.90 354.20
354.50 354.90 355.20 355.50
3774374.79 | 352.90 353.10 353.50 353.90 354.10
354.30 354.60 355.00 355.70
3774336.18 | 352.60 352.80 353.50 353.70 354.00
354.10 354.00 354.40 355.60
3774297.57 | 352.50 352.60 353.10 353.40 353.60
353.80 354.10 354.10 355.00
3774258.96 | 352.60 352.90 353.20 353.50 353.60
353.90 354.20 354.50 355.00
3774220.35 | 352.80 353.00 353.30 353.60 353.90
354.30 354.60 355.00 355.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479846.55	479885.40	479924.25
3774992.55	357.20	357.60	357.90
3774953.94	357.20	357.60	357.90
3774915.33	357.20	357.50	357.80
3774876.72	357.00	357.30	357.80
3774838.11	357.00	357.30	357.70
3774799.50	357.00	357.50	357.70
3774760.89	357.10	357.50	357.80
3774722.28	357.10	357.50	357.70
3774683.67	356.80	357.20	357.50
3774645.06	356.40	356.80	357.30
3774606.45	356.60	356.80	357.10
3774567.84	356.50	356.80	357.10
3774529.23	356.50	356.70	357.10
3774490.62	356.20	356.50	357.00
3774452.01	356.10	356.30	356.70

3774413.40 |	355.70	356.00	356.20
3774374.79 |	355.80	356.00	356.30
3774336.18 |	355.70	355.80	356.20
3774297.57 |	355.60	355.60	356.10
3774258.96 |	355.30	355.90	356.00
3774220.35 |	354.70	355.30	356.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS) |	X-COORD (METERS) 479147.25	479186.10	479224.95	479263.80	479302.65	479341.50	479380.35	479419.20	479458.05
3774992.55 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774953.94 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774915.33 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774876.72 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774838.11 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774799.50 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774760.89 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774722.28 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774683.67 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774645.06 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774606.45 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774567.84 |	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774529.23 |	2401.30	2401.30	2401.30	2401.30	2401.30				

2401.30 2401.30 2401.30 2401.30
3774490.62 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774452.01 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774413.40 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774374.79 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774336.18 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774297.57 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774258.96 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774220.35 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 479496.90 479535.75 479574.60 479613.45 479652.30
479691.15 479730.00 479768.85 479807.70
- -

3774992.55 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774953.94 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774915.33 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774876.72 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774838.11 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774799.50 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774760.89 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

```
  3774722.28 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774683.67 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774645.06 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774606.45 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774567.84 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774529.23 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774490.62 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774452.01 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774413.40 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774374.79 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774336.18 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774297.57 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774258.96 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774220.35 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                            * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     479846.55    479885.40    479924.25
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774992.55 |       2401.30      2401.30      2401.30
  3774953.94 |       2401.30      2401.30      2401.30
  3774915.33 |       2401.30      2401.30      2401.30
  3774876.72 |       2401.30      2401.30      2401.30
```

3774838.11	2401.30	2401.30	2401.30
3774799.50	2401.30	2401.30	2401.30
3774760.89	2401.30	2401.30	2401.30
3774722.28	2401.30	2401.30	2401.30
3774683.67	2401.30	2401.30	2401.30
3774645.06	2401.30	2401.30	2401.30
3774606.45	2401.30	2401.30	2401.30
3774567.84	2401.30	2401.30	2401.30
3774529.23	2401.30	2401.30	2401.30
3774490.62	2401.30	2401.30	2401.30
3774452.01	2401.30	2401.30	2401.30
3774413.40	2401.30	2401.30	2401.30
3774374.79	2401.30	2401.30	2401.30
3774336.18	2401.30	2401.30	2401.30
3774297.57	2401.30	2401.30	2401.30
3774258.96	2401.30	2401.30	2401.30
3774220.35	2401.30	2401.30	2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479947.2, 480027.6, 480108.0, 480188.4, 480268.8, 480349.3, 480429.7, 480510.1, 480590.5, 480670.9,
480751.4, 480831.8, 480912.2, 480992.6, 481073.0, 481153.5, 481233.9, 481314.3, 481394.7, 481475.1,
481555.6,

*** Y-COORDINATES OF GRID ***
(METERS)

3774412.8, 3774441.9, 3774471.0, 3774500.2, 3774529.3, 3774558.5, 3774587.6, 3774616.7, 3774645.9, 3774675.0,
3774704.2, 3774733.3, 3774762.4, 3774791.6, 3774820.7, 3774849.9, 3774879.0, 3774908.1, 3774937.3, 3774966.4,
3774995.6,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479947.16	480027.58	480108.00	480188.42	480268.84	480349.26	480429.68	480510.10	480590.52
3774995.56	357.90	358.80	359.20	360.00	360.80	361.40	362.20	363.00	363.80
3774966.42	358.00	359.00	359.30	360.00	360.90	361.50	362.20	363.20	363.80
3774937.28	358.10	359.30	359.30	360.00	360.90	361.60	362.00	363.10	363.80
3774908.14	358.10	359.50	359.40	360.10	360.90	361.70	362.30	363.10	363.80
3774879.00	358.00	358.70	359.70	360.30	361.00	361.80	362.30	363.00	363.70
3774849.86	358.00	359.00	359.50	360.40	361.00	361.80	362.20	363.10	363.80
3774820.72	358.00	358.80	359.60	360.30	361.00	361.70	362.40	363.20	363.90
3774791.58	357.90	358.80	359.60	360.30	360.90	361.60	362.50	363.30	363.90
3774762.44	357.90	358.80	359.90	360.50	360.90	361.50	362.30	363.30	363.80
3774733.30	357.80	358.70	359.20	360.10	360.90	361.60	362.30	363.20	363.70
3774704.16	357.60	358.30	358.80	359.60	360.50	361.50	362.20	362.90	363.40
3774675.02	357.40	358.00	358.50	359.10	359.90	361.30	361.80	362.40	363.10
3774645.88	357.30	358.10	358.60	359.40	360.30	361.20	361.80	362.50	362.90
3774616.74	357.20	358.10	358.80	359.70	360.50	361.10	361.40	362.20	362.70
3774587.60	357.10	357.90	358.80	359.80	360.20	360.80	361.20	362.20	362.60
3774558.46	357.00	357.70	359.10	359.80	360.00	360.70	361.30	362.00	362.70
3774529.32	356.80	356.70	359.70	359.70	359.70	360.50	361.30	361.90	362.40

3774500.18 | 356.80   357.30   359.40   359.40   359.20
360.30   361.00   361.50   362.40
3774471.04 | 356.80   357.60   359.60   359.50   359.00
360.30   361.10   361.90   362.90
3774441.90 | 356.70   357.60   359.20   359.20   358.90
360.00   361.40   361.80   362.30
3774412.76 | 356.30   357.30   358.50   358.70   358.90
360.30   359.40   360.90   361.70

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2   ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 480670.94   480751.36   480831.78   480912.20   480992.62
481073.04   481153.46   481233.88   481314.30
- -

3774995.56 | 364.70   366.90   366.50   367.50   368.70
370.30   372.00   372.90   374.50
3774966.42 | 365.40   366.70   366.60   367.60   368.80
370.10   371.60   373.20   374.50
3774937.28 | 364.90   366.60   366.60   367.60   368.70
370.10   371.20   372.70   373.70
3774908.14 | 365.40   366.50   366.60   367.60   368.70
370.00   370.90   372.60   373.20
3774879.00 | 365.70   366.40   366.60   367.50   368.60
369.80   370.80   372.30   373.00
3774849.86 | 365.20   366.30   366.80   367.10   368.20
369.60   370.60   372.00   372.50
3774820.72 | 365.50   366.10   366.20   366.70   368.10
369.20   370.40   371.60   372.30
3774791.58 | 365.50   366.00   366.60   367.20   368.30
369.70   370.10   371.20   372.00
3774762.44 | 365.20   365.80   366.50   367.00   368.30
369.20   370.00   371.30   372.00
3774733.30 | 364.50   365.70   365.90   366.70   367.70
368.70   369.80   371.10   371.70
3774704.16 | 364.60   365.50   365.60   366.60   367.60
368.50   369.60   371.10   371.60
3774675.02 | 364.70   365.40   365.70   366.30   367.10

```
  368.00       369.40       370.80       371.30
  3774645.88 |        364.80       365.30       365.40       366.00       366.70
  368.00       369.20       370.60       371.40
  3774616.74 |        364.70       365.10       365.50       366.20       366.80
  368.00       369.00       370.40       371.10
  3774587.60 |        364.70       365.00       365.30       365.70       366.60
  367.80       368.70       369.90       370.70
  3774558.46 |        364.60       364.80       365.20       365.80       366.50
  367.60       368.40       369.60       370.80
  3774529.32 |        364.50       364.70       365.40       366.00       366.80
  367.50       368.00       368.90       370.80
  3774500.18 |        364.50       364.60       365.00       365.70       366.50
  367.50       368.00       369.50       370.50
  3774471.04 |        364.50       364.60       364.90       365.30       366.00
  367.20       367.90       369.90       370.40
  3774441.90 |        363.60       364.80       365.00       365.50       366.40
  367.50       367.70       369.10       369.90
  3774412.76 |        362.20       364.60       363.60       364.40       365.60
  367.20       367.60       369.00       369.70
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     481394.72    481475.14    481555.56
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774995.56 |        375.60       376.40       378.10
  3774966.42 |        375.30       376.00       378.00
  3774937.28 |        375.00       375.80       378.00
  3774908.14 |        374.80       375.60       377.90
  3774879.00 |        374.40       375.40       377.70
  3774849.86 |        373.90       375.20       377.60
  3774820.72 |        373.30       375.10       377.50
  3774791.58 |        373.00       374.50       377.50
  3774762.44 |        372.90       374.30       377.30
  3774733.30 |        372.70       373.90       376.70
  3774704.16 |        372.50       373.70       375.90
  3774675.02 |        372.30       373.40       375.00
  3774645.88 |        372.40       373.50       374.10
```

3774616.74	372.00	373.00	373.80
3774587.60	371.90	372.80	373.70
3774558.46	372.10	372.80	373.60
3774529.32	371.80	372.60	374.50
3774500.18	371.50	372.00	375.10
3774471.04	370.90	372.30	371.50
3774441.90	371.30	372.70	370.20
3774412.76	369.90	373.20	369.40

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479947.16	480027.58	480108.00	480188.42	480268.84	480349.26	480429.68	480510.10	480590.52
3774995.56	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774966.42	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774937.28	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774908.14	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774879.00	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774849.86	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774820.72	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774791.58	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774762.44	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774733.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774704.16	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774675.02	2401.30	2401.30	2401.30	2401.30	2401.30				

2401.30 2401.30 2401.30 2401.30
3774645.88 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774616.74 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774587.60 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774558.46 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774529.32 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774500.18 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774471.04 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774441.90 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774412.76 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 480670.94 480751.36 480831.78 480912.20 480992.62 481073.04 481153.46 481233.88 481314.30
- -

3774995.56 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774966.42 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774937.28 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774908.14 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774879.00 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774849.86 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

```
 3774820.72 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774791.58 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774762.44 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774733.30 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774704.16 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774675.02 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774645.88 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774616.74 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774587.60 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774558.46 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774529.32 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774500.18 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774471.04 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774441.90 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
 3774412.76 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
```

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                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                               X-COORD (METERS)
    (METERS) |     481394.72    481475.14    481555.56
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774995.56 |       2401.30      2401.30      2451.90
 3774966.42 |       2401.30      2401.30      2401.30
```

```
  3774937.28 |       2401.30      2401.30      2401.30
  3774908.14 |       2401.30      2401.30      2401.30
  3774879.00 |       2401.30      2401.30      2401.30
  3774849.86 |       2401.30      2401.30      2401.30
  3774820.72 |       2401.30      2401.30      2401.30
  3774791.58 |       2401.30      2401.30      2401.30
  3774762.44 |       2401.30      2401.30      2401.30
  3774733.30 |       2401.30      2401.30      2401.30
  3774704.16 |       2401.30      2401.30      2401.30
  3774675.02 |       2401.30      2401.30      2401.30
  3774645.88 |       2401.30      2401.30      2401.30
  3774616.74 |       2401.30      2401.30      2401.30
  3774587.60 |       2401.30      2401.30      2401.30
  3774558.46 |       2401.30      2401.30      2401.30
  3774529.32 |       2401.30      2401.30      2401.30
  3774500.18 |       2401.30      2401.30      2401.30
  3774471.04 |       2401.30      2401.30      2401.30
  3774441.90 |       2401.30      2401.30      2401.30
  3774412.76 |       2401.30      2401.30      2401.30
```



```
                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                                (METERS)

     ( 479863.1, 3774072.4,     354.6,    2401.3,       0.0);         ( 479886.6,
3774069.6,     355.0,    2401.3,       0.0);
     ( 479901.5, 3774140.4,     356.0,    2401.3,       0.0);         ( 479777.1,
3774147.3,     354.9,    2401.3,       0.0);
     ( 479777.5, 3774161.5,     355.1,    2401.3,       0.0);
```



```
                                                  *** 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 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: ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
Met Version: 16216
Profile file: ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

```
 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01  -10.6  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22
1.00    1.30  110.    9.1  285.4    5.5
 12 01 01   1 02   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  130.    9.1  284.5    5.5
 12 01 01   1 03   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  100.    9.1  285.0    5.5
 12 01 01   1 04   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  107.    9.1  284.6    5.5
 12 01 01   1 05  -10.7  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22
1.00    1.30   98.    9.1  284.9    5.5
 12 01 01   1 06   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90   86.    9.1  284.5    5.5
 12 01 01   1 07   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90   91.    9.1  284.0    5.5
 12 01 01   1 08   -4.0  0.102 -9.000 -9.000 -999.   78.     22.9  0.32   3.22
0.54    0.90  107.    9.1  285.0    5.5
 12 01 01   1 09   44.6  0.237  0.382  0.006   43.  276.    -25.6  0.15   3.22
0.33    2.10   81.   10.1  289.1    5.5
 12 01 01   1 10  134.3  0.111  0.882  0.008  176.   99.     -1.0  0.32   3.22
0.26    0.40   72.    9.1  295.1    5.5
 12 01 01   1 11  199.8  0.409  1.429  0.005  503.  627.    -29.4  0.15   3.22
0.23    3.68   78.   10.1  297.9    5.5
 12 01 01   1 12  232.3  0.300  1.889  0.005  999.  402.    -10.0  0.32   3.22
0.22    1.80  333.    9.1  299.4    5.5
 12 01 01   1 13  230.0  0.300  2.134  0.005 1453.  394.    -10.1  0.32   3.22
0.22    1.80   72.    9.1  300.4    5.5
 12 01 01   1 14  194.0  0.294  2.109  0.005 1663.  382.    -11.2  0.32   3.22
0.24    1.80  277.    9.1  301.0    5.5
 12 01 01   1 15  126.3  0.378  1.872  0.005 1784.  557.    -36.5  0.32   3.22
0.27    2.70  243.    9.1  301.0    5.5
 12 01 01   1 16   39.5  0.199  1.278  0.005 1817.  240.    -17.2  0.32   3.22
0.36    1.30  274.    9.1  300.1    5.5
 12 01 01   1 17   -4.7  0.101 -9.000 -9.000 -999.   85.     19.0  0.32   3.22
0.65    0.90  252.    9.1  298.2    5.5
 12 01 01   1 18   -4.9  0.102 -9.000 -9.000 -999.   78.     18.2  0.32   3.22
1.00    0.90  116.    9.1  296.4    5.5
 12 01 01   1 19  -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15   3.22
1.00    2.27   79.   10.1  292.2    5.5
 12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22
1.00    0.90   95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
```

```
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     479147.25    479186.10    479224.95    479263.80    479302.65
479341.50    479380.35    479419.20    479458.05
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3774992.55 |       1.25398      1.29461      1.33559      1.37667      1.41768
 1.45812      1.49771      1.53606      1.57264
  3774953.94 |       1.31229      1.35726      1.40286      1.44877      1.49473
 1.54032      1.58512      1.62868      1.67049
  3774915.33 |       1.37416      1.42421      1.47504      1.52644      1.57808
 1.62959      1.68046      1.73013      1.77805
  3774876.72 |       1.43985      1.49561      1.55243      1.61011      1.66840
 1.72671      1.78457      1.84142      1.89647
```

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  3774838.11 |       1.50930      1.57142      1.63498      1.69983      1.76572
 1.83214      1.89827      1.96354      2.02706
  3774799.50 |       1.58297      1.65208      1.72319      1.79624      1.87091
 1.94662      2.02261      2.09797      2.17173
  3774760.89 |       1.66073      1.73778      1.81763      1.90007      1.98486
 2.07131      2.15859      2.24585      2.33195
  3774722.28 |       1.74272      1.82868      1.91834      2.01152      2.10790
 2.20700      2.30735      2.40887      2.51001
  3774683.67 |       1.82894      1.92465      2.02527      2.13071      2.24061
 2.35450      2.47098      2.59018      2.70926
  3774645.06 |       1.91930      2.02613      2.13911      2.25870      2.38421
 2.51538      2.65057      2.79009      2.93110
  3774606.45 |       2.01361      2.13295      2.26014      2.39586      2.53905
 2.69059      2.84800      3.01189      3.17949
  3774567.84 |       2.11167      2.24472      2.38765      2.54133      2.70556
 2.88071      3.06487      3.25889      3.45907
  3774529.23 |       2.21267      2.36112      2.52159      2.69571      2.88407
 3.08651      3.30195      3.53149      3.77196
  3774490.62 |       2.31640      2.48050      2.66050      2.85773      3.07270
 3.30718      3.56113      3.83299      4.12333
  3774452.01 |       2.42156      2.60331      2.80426      3.02644      3.27186
 3.54324      3.84097      4.16574      4.51691
  3774413.40 |       2.52693      2.72722      2.95072      3.20069      3.48040
 3.79289      4.14125      4.52768      4.95406
  3774374.79 |       2.63054      2.85065      3.09858      3.37856      3.69536
 4.05492      4.46146      4.92106      5.43868
  3774336.18 |       2.73126      2.97115      3.24387      3.55545      3.91276
 4.32415      4.79670      5.34087      5.96708
  3774297.57 |       2.82657      3.08673      3.38515      3.72933      4.12844
 4.59460      5.13974      5.78031      6.53534
  3774258.96 |       2.91451      3.19395      3.51683      3.89370      4.33544
 4.85868      5.48042      6.22735      7.12930
  3774220.35 |       2.99276      3.29006      3.63618      4.04382      4.52681
 5.10590      5.80637      6.66487      7.72868
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479496.90	479535.75	479574.60	479613.45	479652.30	479691.15	479730.00	479768.85	479807.70
3774992.55	1.60702	1.63884	1.66753	1.69265	1.71389	1.73104	1.74343	1.75149	1.75464
3774953.94	1.70996	1.74652	1.77932	1.80861	1.83351	1.85366	1.86840	1.87722	1.88090
3774915.33	1.82344	1.86558	1.90389	1.93796	1.96701	1.99049	2.00761	2.01789	2.02212
3774876.72	1.94888	1.99781	2.04234	2.08211	2.11619	2.14390	2.16437	2.17684	2.18167
3774838.11	2.08802	2.14523	2.19775	2.24430	2.28440	2.31683	2.34113	2.35653	2.36241
3774799.50	2.24283	2.31004	2.37184	2.42732	2.47509	2.51409	2.54311	2.56134	2.56816
3774760.89	2.41561	2.49508	2.56888	2.63513	2.69254	2.73945	2.77469	2.79609	2.80468
3774722.28	2.60900	2.70359	2.79211	2.87216	2.94179	2.99880	3.04154	3.06779	3.07870
3774683.67	2.82649	2.93969	3.04657	3.14397	3.22892	3.29935	3.35217	3.38556	3.39869
3774645.06	3.07150	3.20807	3.33834	3.45794	3.56323	3.65093	3.71682	3.75898	3.77574
3774606.45	3.34821	3.51452	3.67467	3.82327	3.95503	4.06560	4.14947	4.20204	4.22336
3774567.84	3.66338	3.86691	4.06512	4.25118	4.41816	4.55976	4.66839	4.73587	4.76383
3774529.23	4.02061	4.27244	4.52076	4.75718	4.97228	5.15664	5.29855	5.38772	5.42410
3774490.62	4.42825	4.74175	5.05588	5.35988	5.64132	5.88506	6.07565	6.19607	6.24562
3774452.01	4.89212	5.28588	5.68830	6.08550	6.45925	6.78768	7.04776	7.21814	7.28649
3774413.40	5.41865	5.91706	6.43918	6.96693	7.47511	7.93088	8.29703	8.54069	8.63689
3774374.79	6.01541	6.65007	7.33436	8.04648	8.75173	9.40161	9.93591	10.29460	10.43069
3774336.18	6.68410	7.49666	8.40405	9.37965	10.38278

```
11.33940     12.15107     12.70722     12.90961
  3774297.57 |       7.42479      8.46611      9.67439     11.03455     12.49871
13.96098     15.24869     16.15660     16.49780
  3774258.96 |       8.22661      9.56050     11.17464     13.09405     15.28785
17.62139     19.79014     21.36736     21.96244
  3774220.35 |       9.06237     10.74906     12.89890     15.62561     18.99940
22.90632     26.85027     29.86467     30.98520
```



```
                            *** THE PERIOD ( 43848 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479846.55    479885.40    479924.25
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774992.55 |       1.75289      1.74613      1.73473
  3774953.94 |       1.87871      1.87086      1.85760
  3774915.33 |       2.01975      2.01065      1.99515
  3774876.72 |       2.17887      2.16815      2.14968
  3774838.11 |       2.35897      2.34623      2.32443
  3774799.50 |       2.56431      2.54876      2.52292
  3774760.89 |       2.79985      2.78119      2.74979
  3774722.28 |       3.07241      3.04957      3.01142
  3774683.67 |       3.39092      3.36265      3.31530
  3774645.06 |       3.76624      3.73078      3.67102
  3774606.45 |       4.21118      4.16659      4.09140
  3774567.84 |       4.74792      4.68971      4.59273
  3774529.23 |       5.40286      5.32633      5.19848
```

```
  3774490.62 |       6.21713      6.11292      5.94088
  3774452.01 |       7.24542      7.10131      6.86571
  3774413.40 |       8.57769      8.36981      8.03868
  3774374.79 |      10.34106     10.03270      9.54775
  3774336.18 |      12.76362     12.28419     11.54594
  3774297.57 |      16.22820     15.43858     14.26236
  3774258.96 |      21.46309     20.03430     18.07733
  3774220.35 |      29.97132     27.19692     23.61895
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479947.16    480027.58    480108.00    480188.42    480268.84
480349.26    480429.68    480510.10    480590.52
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774995.56 |       1.71708      1.63631      1.55873      1.46056      1.37254
 1.28793      1.20136      1.11450      1.02196
  3774966.42 |       1.80667      1.70751      1.62831      1.52754      1.42967
 1.33795      1.24615      1.14753      1.05475
  3774937.28 |       1.90399      1.77626      1.70939      1.59933      1.49252
 1.39088      1.29626      1.19062      1.08895
  3774908.14 |       2.01006      1.86024      1.79151      1.67265      1.55954
 1.44694      1.34143      1.23278      1.12461
  3774879.00 |       2.12601      2.01884      1.87154      1.75001      1.62883
 1.50634      1.39367      1.27989      1.16537
  3774849.86 |       2.25290      2.11281      1.98192      1.83590      1.70512
```

```
 1.57122      1.45035      1.32325      1.20066
  3774820.72 |       2.39232      2.25337      2.08756      1.93407      1.78669
 1.64208      1.50501      1.36846      1.23742
  3774791.58 |       2.54616      2.39162      2.20772      2.03711      1.87655
 1.71740      1.56425      1.41561      1.27968
  3774762.44 |       2.71620      2.54363      2.32044      2.14218      1.97018
 1.79748      1.63238      1.46877      1.32790
  3774733.30 |       2.90522      2.72068      2.51281      2.27585      2.07055
 1.87793      1.70043      1.52844      1.37836
  3774704.16 |       3.11621      2.96419      2.71058      2.43746      2.19044
 1.96832      1.77426      1.59781      1.43905
  3774675.02 |       3.35256      3.17638      2.92227      2.62303      2.33102
 2.06719      1.85869      1.67202      1.50130
  3774645.88 |       3.61834      3.41095      3.10522      2.75340      2.43852
 2.16985      1.93929      1.73585      1.56193
  3774616.74 |       3.91898      3.67354      3.29789      2.90276      2.56583
 2.27925      2.03411      1.81089      1.62457
  3774587.60 |       4.26096      3.96902      3.53594      3.07951      2.72190
 2.40216      2.12984      1.88424      1.68740
  3774558.46 |       4.65232      4.30230      3.76037      3.28136      2.88849
 2.52703      2.22359      1.96596      1.74958
  3774529.32 |       5.10356      4.68298      3.97656      3.51185      3.08179
 2.66396      2.32605      2.05076      1.82392
  3774500.18 |       5.62612      5.10960      4.32829      3.78205      3.30771
 2.81065      2.44369      2.14764      1.89732
  3774471.04 |       6.23700      5.59828      4.65985      4.03677      3.52970
 2.96063      2.55835      2.23419      1.96518
  3774441.90 |       6.95797      6.16122      5.12203      4.36867      3.75768
 3.13571      2.67671      2.33897      2.06364
  3774412.76 |       7.81881      6.81335      5.71363      4.76335      3.99026
 3.29755      2.87997      2.46863      2.16561
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,
```

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480670.94	480751.36	480831.78	480912.20	480992.62	481073.04	481153.46	481233.88	481314.30
3774995.56	0.93034	0.81996	0.77713	0.71227	0.65273	0.59680	0.54820	0.51233	0.47566
3774966.42	0.93821	0.84725	0.79554	0.72834	0.66692	0.61275	0.56406	0.52116	0.48580
3774937.28	0.98100	0.87346	0.81667	0.74671	0.68444	0.62704	0.58063	0.53667	0.50182
3774908.14	0.99604	0.90073	0.83860	0.76577	0.70121	0.64308	0.59697	0.54961	0.51653
3774879.00	1.01802	0.92913	0.86137	0.78737	0.72012	0.66098	0.61200	0.56479	0.52969
3774849.86	1.06484	0.95873	0.88070	0.81549	0.74442	0.67968	0.62874	0.58068	0.54577
3774820.72	1.08892	0.99220	0.91888	0.84504	0.76511	0.70182	0.64626	0.59825	0.56029
3774791.58	1.12361	1.02454	0.93546	0.85783	0.78192	0.71326	0.66576	0.61674	0.57637
3774762.44	1.16977	1.06115	0.96471	0.88547	0.80287	0.73856	0.68399	0.63147	0.59086
3774733.30	1.23318	1.09667	1.00778	0.91658	0.83495	0.76533	0.70440	0.64997	0.60875
3774704.16	1.27000	1.13695	1.04560	0.94501	0.86009	0.78930	0.72599	0.66764	0.62602
3774675.02	1.30873	1.17625	1.07455	0.97944	0.89395	0.81922	0.74891	0.68948	0.64620
3774645.88	1.34960	1.21769	1.11627	1.01589	0.92802	0.84322	0.77334	0.71177	0.66422
3774616.74	1.40080	1.26487	1.14903	1.04277	0.95441	0.86894	0.79947	0.73566	0.68722
3774587.60	1.45099	1.31154	1.19270	1.08838	0.98871	0.89975	0.82879	0.76448	0.71279
3774558.46	1.50867	1.36486	1.23636	1.12227	1.02347	0.93284	0.86027	0.79322	0.73567
3774529.32	1.57038	1.41832	1.27443	1.15672	1.05309	0.96686	0.89544	0.82852	0.76140
3774500.18	1.63239	1.47590	1.33387	1.20652	1.09748	1.00208	0.92774	0.85191	0.79187
3774471.04	1.69970	1.53453	1.38867	1.26265	1.14928	1.04506	0.96407	0.88023	0.82273

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  3774441.90 |       1.81155      1.59135      1.44218      1.30817      1.18697
 1.08197      1.00447      0.92339      0.85920
  3774412.76 |       1.92445      1.66875      1.54504      1.39008      1.25167
 1.13144      1.04639      0.96182      0.89514
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     481394.72    481475.14    481555.56
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

  3774995.56 |       0.44636      0.42165      0.39530
  3774966.42 |       0.45743      0.43239      0.40381
  3774937.28 |       0.46900      0.44256      0.41226
  3774908.14 |       0.48047      0.45318      0.42157
  3774879.00 |       0.49373      0.46431      0.43181
  3774849.86 |       0.50831      0.47600      0.44210
  3774820.72 |       0.52434      0.48773      0.45296
  3774791.58 |       0.53913      0.50308      0.46398
  3774762.44 |       0.55332      0.51688      0.47669
  3774733.30 |       0.56912      0.53280      0.49226
  3774704.16 |       0.58592      0.54846      0.50993
  3774675.02 |       0.60386      0.56584      0.52935
  3774645.88 |       0.62079      0.58180      0.55012
  3774616.74 |       0.64288      0.60299      0.56874
  3774587.60 |       0.66421      0.62363      0.58749
  3774558.46 |       0.68491      0.64445      0.60762
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  3774529.32 |       0.71120      0.66821      0.62345
  3774500.18 |       0.73934      0.69624      0.64266
  3774471.04 |       0.77161      0.72006      0.68702
  3774441.90 |       0.79835      0.74510      0.71936
  3774412.76 |       0.83978      0.77141      0.74965
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                              *** THE PERIOD ( 43848 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         479863.12    3774072.39      278.60212                     479886.61
3774069.62      199.09596
         479901.46    3774140.43       56.09180                     479777.12
3774147.34       77.26090
         479777.47    3774161.50       61.43539
```



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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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479147.25	479186.10	479224.95	479263.80	479302.65
3774992.5	9.25372 (12121607)	10.08826 (12121607)	10.80379 (12121607)	11.34853 (12121607)	11.67910 (12121607)
3774953.9	9.15865 (12121607)	10.12146 (12121607)	10.99097 (12121607)	11.70535 (12121607)	12.20832 (12121607)
3774915.3	8.97941 (12121607)	10.07419 (12121607)	11.10184 (12121607)	11.99842 (12121607)	12.69413 (12121607)
3774876.7	8.98103 (13021806)	9.93246 (12121607)	11.12013 (12121607)	12.20784 (12121607)	13.12083 (12121607)
3774838.1	8.96408 (13021806)	9.79151 (13021806)	11.01667 (12121607)	12.29826 (12121607)	13.44146 (12121607)
3774799.5	8.93036 (12121608)	9.81798 (13021806)	10.78713 (12121607)	12.25809 (12121607)	13.64073 (12121607)
3774760.9	9.51740 (12121608)	9.72596 (13021806)	10.79215 (13021806)	12.07948 (12121607)	13.70257 (12121607)
3774722.3	10.01744 (12121608)	10.32758 (12121608)	10.73709 (13021806)	11.91584 (13021806)	13.58864 (12121607)
3774683.7	10.39520 (12121608)	10.90391 (12121608)	11.24919 (12121608)	11.90619 (13021806)	13.27505 (12121607)
3774645.1	10.61554 (12121608)	11.34264 (12121608)	11.92671 (12121608)	12.32524 (12121608)	13.29133 (13021806)
3774606.4	10.64722 (12121608)	11.59829 (12121608)	12.44696 (12121608)	13.14051 (12121608)	13.59132 (12121608)
3774567.8	11.35815 (13070106)	11.62896 (12121608)	12.74264 (12121608)	13.75110 (12121608)	14.56478 (12121608)
3774529.2	13.27367 (13070106)	12.98507 (13070106)	12.76982 (12121608)	14.10046 (12121608)	15.31341 (12121608)
3774490.6	15.12771 (13070106)	15.14463 (13070106)	14.92457 (13070106)	14.44286 (13070106)	15.71033 (12121608)
3774452.0	16.72837 (13070106)	17.17380 (13070106)	17.38065 (13070106)		

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    17.29440 (13070106)     16.86977 (13070106)
 3774413.4 |     17.87051 (13070106)     18.81023 (13070106)     19.56314 (13070106)
    20.05737 (13070106)     20.20919 (13070106)
 3774374.8 |     19.71222 (14011322)     20.39443 (14011322)     21.18065 (13070106)
    22.38575 (13070106)     23.31318 (13070106)
 3774336.2 |     21.18557 (14011322)     22.41944 (14011322)     23.55705 (14011322)
    24.53879 (14011322)     25.68100 (13070106)
 3774297.6 |     21.80315 (14011322)     23.58499 (14011322)     25.40799 (14011322)
    27.21481 (14011322)     28.91910 (14011322)
 3774259.0 |     22.87710 (14011323)     24.32455 (14011323)     25.97917 (14011322)
    28.56005 (14011322)     31.25892 (14011322)
 3774220.3 |     23.77548 (14011323)     25.73600 (14011323)     27.84127 (14011323)
    30.14705 (14011323)     32.56679 (14011323)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE  33
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479341.50              479380.35              479419.20
      479458.05              479496.90
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774992.5 |     11.75069 (12121607)     11.54341 (12121607)     11.05698 (12121607)
    10.30944 (12121607)      9.47697 (12021321)
 3774953.9 |     12.44576 (12121607)     12.38097 (12121607)     11.99905 (12121607)
    11.31152 (12121607)     10.35678 (12121607)
 3774915.3 |     13.12558 (12121607)     13.23633 (12121607)     12.99436 (12121607)
    12.39796 (12121607)     11.47367 (12121607)
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 3774876.7 |     13.77252 (12121607)     14.09287 (12121607)     14.03129 (12121607)
    13.56163 (12121607)     12.70050 (12121607)
 3774838.1 |     14.35014 (12121607)     14.92227 (12121607)     15.08592 (12121607)
    14.79131 (12121607)     14.03896 (12121607)
 3774799.5 |     14.82651 (12121607)     15.69690 (12121607)     16.14280 (12121607)
    16.08462 (12121607)     15.49142 (12121607)
 3774760.9 |     15.18070 (12121607)     16.37566 (12121607)     17.15499 (12121607)
    17.40267 (12121607)     17.04865 (12121607)
 3774722.3 |     15.37144 (12121607)     16.91242 (12121607)     18.08415 (12121607)
    18.72030 (12121607)     18.69177 (12121607)
 3774683.7 |     15.35712 (12121607)     17.29080 (12121607)     18.93353 (12121607)
    20.02992 (12121607)     20.40512 (12121607)
 3774645.1 |     15.12627 (12121607)     17.44587 (12121607)     19.57079 (12121607)
    21.21390 (12121607)     22.13211 (12121607)
 3774606.4 |     14.94998 (13021806)     17.33990 (12121607)     19.96993 (12121607)
    22.22961 (12121607)     23.80074 (12121607)
 3774567.8 |     15.10503 (12121608)     16.92860 (12121607)     20.08876 (12121607)
    23.02611 (12121607)     25.39003 (12121607)
 3774529.2 |     16.29320 (12121608)     16.97328 (13021806)     19.78080 (12121607)
    23.42829 (12121607)     26.68991 (12121607)
 3774490.6 |     17.18501 (12121608)     18.38122 (12121608)     19.57529 (13021806)
    23.36200 (12121607)     27.62018 (12121607)
 3774452.0 |     17.67018 (12121608)     19.49359 (12121608)     20.96867 (12121608)
    22.86821 (13021806)     27.95370 (12121607)
 3774413.4 |     19.93203 (13070106)     20.07326 (12121608)     22.36028 (12121608)
    24.22349 (12121608)     27.48120 (12121607)
 3774374.8 |     23.85274 (13070106)     23.83757 (13070106)     23.16823 (13070106)
    26.06280 (12121608)     28.45978 (12121608)
 3774336.2 |     27.28883 (13070106)     28.42583 (13070106)     28.89223 (13070106)
    28.61440 (14120316)     30.89746 (12121608)
 3774297.6 |     30.43343 (14011322)     32.11539 (13070106)     34.23553 (13070106)
    35.58605 (13070106)     37.35934 (14120316)
 3774259.0 |     34.05344 (14011322)     36.69729 (14011322)     39.05066 (14011322)
    41.73553 (13070106)     45.07414 (14120316)
 3774220.3 |     35.58084 (14011322)     39.81213 (14011322)     44.32540 (14011322)
    48.85945 (14011322)     52.96454 (14011322)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE  34
 *** 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    ,
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L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479535.75	479574.60	479613.45	479652.30	479691.15
3774992.5	10.74310 (12021321)	11.83576 (12021321)	12.65177 (12021321)	13.10591 (12021321)	13.14593 (12021321)
3774953.9	11.04810 (12021321)	12.29211 (12021321)	13.25484 (12021321)	13.83070 (12021321)	13.95020 (12021321)
3774915.3	11.34551 (12021321)	12.76346 (12021321)	13.89476 (12021321)	14.61259 (12021321)	14.82677 (12021321)
3774876.7	11.63037 (12021321)	13.24136 (12021321)	14.56651 (12021321)	15.45278 (12021321)	15.78516 (12021321)
3774838.1	12.87054 (12121607)	13.72707 (12021321)	15.27610 (12021321)	16.36168 (12021321)	16.83485 (12021321)
3774799.5	14.39109 (12121607)	14.20899 (12021321)	16.02016 (12021321)	17.34590 (12021321)	18.00123 (12021321)
3774760.9	16.07626 (12121607)	14.68404 (12021321)	16.79770 (12021321)	18.41155 (12021321)	19.28923 (12021321)
3774722.3	17.92777 (12121607)	16.48620 (12121607)	17.60230 (12021321)	19.56182 (12021321)	20.71687 (12021321)
3774683.7	19.94676 (12121607)	18.65940 (12121607)	18.42639 (12021321)	20.79833 (12021321)	22.30226 (12021321)
3774645.1	22.11001 (12121607)	21.09666 (12121607)	19.25954 (12021321)	22.13031 (12021321)	24.07017 (12021321)
3774606.4	24.38293 (12121607)	23.79814 (12121607)	22.00980 (12121607)	23.55483 (12021321)	26.04336 (12021321)
3774567.8	26.74007 (12121607)	26.77122 (12121607)	25.32584 (12121607)	25.06699 (12021321)	28.25032 (12021321)
3774529.2	29.03703 (12121607)	29.95444 (12121607)	29.10517 (12121607)	26.65980 (12021321)	30.72736 (12021321)
3774490.6	31.15602 (12121607)	33.26976 (12121607)	33.36069 (12121607)	31.17473 (12121607)	33.49946 (12021321)
3774452.0	32.87027 (12121607)	36.54473 (12121607)	38.04628 (12121607)	36.73006 (12121607)	36.59569 (12021321)
3774413.4	33.88389 (12121607)	39.51434 (12121607)	43.02285 (12121607)	43.22886 (12121607)	40.06566 (12021321)
3774374.8	33.90702 (12121607)	41.79631 (12121607)	48.03644 (12121607)		

```
    50.67950 (12121607)     48.37324 (12121607)
 3774336.2 |     34.09527 (12121608)     42.87547 (12121607)     52.54714 (12121607)
    58.92280 (12121607)     59.21951 (12121607)
 3774297.6 |     39.07119 (14120316)     42.00176 (12121608)     55.68706 (12121607)
    67.40130 (12121607)     72.46800 (12121607)
 3774259.0 |     50.10036 (14120316)     53.72571 (14120316)     56.32494 (12121607)
    75.06904 (12121607)     88.27271 (12121607)
 3774220.3 |     60.30715 (14120316)     69.75483 (14120316)     77.65810 (14120316)
    81.22785 (14120316)    105.77576 (12121607)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE  35
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479730.00              479768.85              479807.70
      479846.55              479885.40
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3774992.5 |     12.75451 (12021321)     13.61692 (14022508)     14.59800 (14022508)
    15.08685 (14022508)     15.02923 (14022508)
 3774953.9 |     13.58811 (12021321)     14.39951 (14022508)     15.46706 (14022508)
    15.97905 (14022508)     15.88246 (14022508)
 3774915.3 |     14.49857 (12021321)     15.25678 (14022508)     16.42018 (14022508)
    16.96371 (14022508)     16.82134 (14022508)
 3774876.7 |     15.50790 (12021321)     16.21308 (14022508)     17.48559 (14022508)
    18.05948 (14022508)     17.85822 (14022508)
 3774838.1 |     16.62309 (12021321)     17.26821 (14022508)     18.67130 (14022508)
    19.27460 (14022508)     18.99974 (14022508)
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 3774799.5 |     17.87686 (12021321)     18.44543 (14022508)     19.99209 (14022508)
    20.63361 (14022508)     20.26045 (14022508)
 3774760.9 |     19.28429 (12021321)     19.76075 (14022508)     21.48529 (14022508)
    22.15815 (14022508)     21.67192 (14022508)
 3774722.3 |     20.86550 (12021321)     21.24917 (14022508)     23.18491 (14022508)
    23.88532 (14022508)     23.25236 (14022508)
 3774683.7 |     22.65797 (12021321)     22.95445 (14022508)     25.12902 (14022508)
    25.86404 (14022508)     25.04510 (14022508)
 3774645.1 |     24.69947 (12021321)     24.89475 (14022508)     27.36542 (14022508)
    28.13699 (14022508)     27.07922 (14022508)
 3774606.4 |     27.04093 (12021321)     27.11651 (14022508)     29.93774 (14022508)
    30.73284 (14022508)     29.37371 (14022508)
 3774567.8 |     29.74172 (12021321)     29.70665 (14022508)     32.96460 (14022508)
    33.77342 (14022508)     31.99990 (14022508)
 3774529.2 |     32.87713 (12021321)     32.75389 (14022508)     36.54146 (14022508)
    37.34257 (14022508)     35.03300 (14022508)
 3774490.6 |     36.54874 (12021321)     36.54932 (12021321)     40.84477 (14022508)
    41.61294 (14022508)     38.56159 (14022508)
 3774452.0 |     40.86662 (12021321)     41.45585 (12021321)     46.07989 (14022508)
    46.73532 (14022508)     42.68724 (14022508)
 3774413.4 |     46.04686 (12021321)     47.51721 (12021321)     52.56780 (14022508)
    53.02372 (14022508)     47.55872 (14022508)
 3774374.8 |     52.28791 (12021321)     55.11047 (12021321)     60.69044 (14022508)
    60.75528 (14022508)     53.30244 (14022508)
 3774336.2 |     59.88378 (12021321)     64.87194 (12021321)     71.23278 (14022508)
    70.54405 (14022508)     60.20010 (14022508)
 3774297.6 |     69.27425 (12021321)     77.70288 (12021321)     85.38202 (14022508)
    83.15300 (14022508)     68.51357 (14022508)
 3774259.0 |     88.14507 (12121607)     95.24192 (12021321)    104.76330 (14022508)
    99.84363 (14022508)     86.43512 (12121601)
 3774220.3 |    116.46261 (12121607)    120.17683 (12021321)    132.56334 (14022508)
   122.56058 (14022508)    133.62220 (12022716)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE  36
 *** 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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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479924.25
3774992.5	14.44209 (14022508)
3774953.9	15.19754 (14022508)
3774915.3	16.02079 (14022508)
3774876.7	16.91519 (14022508)
3774838.1	17.89453 (14022508)
3774799.5	18.96355 (14022508)
3774760.9	20.13266 (14022508)
3774722.3	21.42605 (14022508)
3774683.7	22.85692 (14022508)
3774645.1	24.43882 (14022508)
3774606.4	26.19120 (14022508)
3774567.8	28.12324 (14022508)
3774529.2	30.26680 (14022508)
3774490.6	32.65347 (14022508)
3774452.0	35.31888 (14022508)
3774413.4	39.03214 (13102821)
3774374.8	47.92916 (12121601)
3774336.2	59.09533 (12121601)
3774297.6	72.74991 (12121601)
3774259.0	105.69682 (12022716)
3774220.3	154.31125 (12022716)

*** 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479947.16	480027.58	480108.00	480188.42	480268.84
3774995.6	13.82603 (14022508)	11.87673 (14022508)	15.09109 (13102821)	19.32354 (13102821)	20.08517 (12011117)
3774966.4	14.32712 (14022508)	12.55848 (12121508)	16.54024 (13102821)	20.28907 (13102821)	20.76103 (12011117)
3774937.3	14.85679 (14022508)	15.54311 (12121508)	17.70098 (13102821)	21.24446 (13102821)	21.23903 (12011117)
3774908.1	15.41951 (14022508)	17.57884 (12121508)	19.24613 (13102821)	22.40385 (13102821)	21.92411 (12121601)
3774879.0	16.01806 (14022508)	14.20065 (13102821)	21.34823 (13102821)	23.56360 (13102821)	22.94401 (12121601)
3774849.9	16.64993 (14022508)	16.55250 (13102821)	22.31771 (13102821)	24.68252 (12011117)	23.78982 (12121601)
3774820.7	17.32005 (14022508)	17.20635 (13102821)	24.02700 (13102821)	25.47701 (12011117)	24.50628 (12121601)
3774791.6	18.03435 (14022508)	18.67616 (13102821)	25.50560 (13102821)	26.31633 (12011117)	25.42635 (12041203)
3774762.4	18.78945 (14022508)	20.26130 (13102821)	28.05276 (13102821)	27.58175 (12121601)	26.45947 (12041203)
3774733.3	19.59505 (14022508)	21.26198 (13102821)	26.16317 (13102821)	28.59968 (12121601)	27.28907 (12041203)
3774704.2	20.45496 (14022508)	17.56891 (13102821)	24.73250 (12121601)	28.46606 (12121601)	27.24671 (12041203)
3774675.0	21.36866 (14022508)	18.89952 (13102821)	24.15816 (12121601)	26.90750 (12121601)	26.92369 (12031723)
3774645.9	22.33472 (14022508)	20.55459 (12121601)	26.93154 (12121601)	29.33468 (12121601)	29.03117 (12031723)
3774616.7	23.35965 (14022508)	22.74666 (12121601)	30.32907 (12121601)	31.35656 (12041203)	30.52622 (12031723)
3774587.6	24.44556 (14022508)	25.16974 (12121601)	32.06095 (12121601)	32.85728 (12041203)	31.51733 (12041201)
3774558.5	25.59373 (14022508)	27.81695 (12121601)	36.04618 (12121601)	34.90860 (12031723)	33.47373 (12041201)
3774529.3	26.81029 (14022508)	30.74918 (12121601)	41.21501 (12121601)	36.72099 (12031723)	34.55672 (12080105)
3774500.2	28.78862 (13102821)	33.75308 (12121601)	40.91204 (12121601)	37.51989 (12041201)	34.78035 (12071219)

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 3774471.0 |     32.14891 (13102821)     36.92657 (12121601)     43.96887 (12031723)
    41.08958 (12041201)     35.04843 (12071219)
 3774441.9 |     36.78854 (12121601)     40.22402 (12121601)     45.51210 (12031723)
    41.92884 (12071219)     35.10532 (12071219)
 3774412.8 |     42.34979 (12121601)     44.72848 (12022716)     50.04795 (12022716)
    40.20046 (12071219)     36.51490 (12092019)
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       14:32:36

                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       480349.26               480429.68               480510.10
      480590.52               480670.94
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774995.6 |     19.38874 (12121601)     19.27339 (12041203)     17.69111 (12121724)
    18.31066 (12081701)     19.01928 (12081701)
 3774966.4 |     19.96028 (12121601)     19.60866 (12041203)     18.13014 (12121724)
    19.31185 (12081701)     19.88916 (12081701)
 3774937.3 |     20.88932 (12041203)     19.61080 (12041203)     18.73386 (12081701)
    20.15965 (12081701)     19.61385 (12081701)
 3774908.1 |     21.81423 (12041203)     19.90762 (12041203)     20.09028 (12081701)
    20.81277 (12081701)     19.85938 (12080105)
 3774879.0 |     22.61439 (12041203)     19.98263 (12031723)     21.21756 (12081701)
    21.13334 (12081701)     20.39015 (12080105)
 3774849.9 |     23.13830 (12041203)     20.78649 (12031723)     22.38375 (12081701)
    21.38233 (12081701)     21.15623 (12071219)
 3774820.7 |     23.35084 (12041203)     22.24196 (12081701)     23.32965 (12081701)
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    21.90126 (12080105)     22.00373 (12071219)
 3774791.6 |     23.34187 (12041203)     23.92741 (12081701)     23.99277 (12081701)
    22.78647 (12071219)     22.40693 (12071219)
 3774762.4 |     23.86866 (12031723)     25.00325 (12081701)     24.20651 (12080105)
    23.77175 (12071219)     22.44709 (14040821)
 3774733.3 |     24.98287 (12031723)     26.06932 (12081701)     24.93684 (12080105)
    24.40120 (12071219)     22.77568 (14040821)
 3774704.2 |     26.56271 (12081701)     26.62602 (12081701)     26.17342 (12071219)
    24.49543 (12071219)     23.48465 (14040821)
 3774675.0 |     27.92984 (12081701)     27.20775 (12080105)     26.86455 (12071219)
    24.41106 (12111417)     23.74550 (14040821)
 3774645.9 |     29.11880 (12081701)     28.70095 (12071219)     27.55132 (12071219)
    24.67382 (12111417)     24.46562 (12071222)
 3774616.7 |     30.39704 (12080105)     29.91329 (12071219)     27.35988 (12071219)
    24.47070 (14040821)     25.52458 (12071222)
 3774587.6 |     31.62510 (12071219)     30.76483 (12071219)     27.77979 (12111417)
    25.11689 (12071222)     26.11942 (12071222)
 3774558.5 |     33.91833 (12071219)     31.31225 (12071219)     27.72788 (12092019)
    26.42423 (12071222)     25.96527 (13090224)
 3774529.3 |     35.45928 (12071219)     31.41568 (12111417)     27.93643 (12071222)
    26.47021 (12120107)     27.00772 (13090224)
 3774500.2 |     36.19530 (12071219)     31.65774 (12092019)     28.44788 (12120107)
    27.31822 (12092123)     27.44719 (13090224)
 3774471.0 |     36.28421 (12071219)     32.14626 (12092019)     30.04915 (12120107)
    28.93903 (12092123)     27.73405 (13090905)
 3774441.9 |     36.68475 (12092019)     33.63675 (12120107)     31.15886 (12092123)
    28.69745 (12080223)     27.24462 (13081722)
 3774412.8 |     37.82668 (12092019)     29.57535 (12052222)     30.99540 (12052222)
    28.93911 (13081722)     26.10497 (13081722)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE  39
 *** 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    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480751.36	480831.78	480912.20	480992.62	481073.04
3774995.6	18.48679 (12081701)	17.63965 (12091001)	17.47495 (12091001)	17.30114 (14040821)	17.48315 (12071323)
3774966.4	18.43193 (12080105)	18.24892 (12091001)	17.66525 (12083024)	17.77916 (14040821)	17.85591 (12071323)
3774937.3	19.31942 (12091001)	18.52913 (12091001)	18.23063 (14040821)	18.05778 (12071323)	18.05525 (12071323)
3774908.1	19.98901 (12091001)	18.56773 (12083024)	18.75565 (14040821)	18.58521 (12071323)	17.91773 (12081324)
3774879.0	20.37383 (12091001)	19.31494 (14040821)	18.93990 (14040821)	18.74301 (12071323)	18.42048 (12081324)
3774849.9	20.44129 (12091001)	20.10574 (14040821)	19.14522 (12071323)	18.57517 (12071222)	18.59983 (12081324)
3774820.7	20.92155 (14040821)	20.00442 (14040821)	19.05891 (12071323)	19.10925 (12071222)	18.31603 (12081324)
3774791.6	21.66278 (14040821)	20.71071 (12071323)	19.86836 (12071222)	19.48465 (12071222)	18.58165 (13090224)
3774762.4	21.95558 (14040821)	20.91629 (12071323)	20.32705 (12071222)	19.37603 (12071222)	19.04043 (13090224)
3774733.3	22.12260 (12071323)	21.09561 (12071222)	20.32638 (12071222)	19.49484 (13090224)	19.10560 (13090224)
3774704.2	22.29353 (13060705)	21.43089 (12071222)	20.06701 (12071222)	20.01361 (13090224)	19.15172 (12081522)
3774675.0	23.20336 (12071222)	21.67200 (12071222)	20.70774 (13090224)	19.85368 (13090224)	18.87423 (13081201)
3774645.9	23.70728 (12071222)	21.62271 (13090224)	20.91121 (13090224)	19.64201 (12081522)	19.35867 (13090822)
3774616.7	23.58382 (12071222)	22.48532 (13090224)	21.15934 (12081522)	20.04684 (13090822)	19.59662 (13090822)
3774587.6	24.14111 (13090224)	22.56975 (13090224)	20.84165 (13090905)	20.28278 (13090822)	19.57342 (13070323)
3774558.5	24.57721 (13090224)	22.59270 (13090905)	21.48483 (13090822)	20.17118 (12081122)	19.92587 (12081122)
3774529.3	24.55079 (13090905)	23.22434 (13090822)	21.75121 (13090822)	21.07017 (12081122)	19.92678 (12081122)
3774500.2	24.73529 (13090905)	23.10886 (12081223)	22.06171 (12081122)	20.96614 (12081122)	20.11663 (13071323)
3774471.0	25.25355 (12081223)	23.45658 (12081122)	21.89928 (12081122)	20.72927 (13071323)	20.02613 (13071823)
3774441.9	25.94034 (12081122)	23.92654 (12081122)	22.30893 (13071323)	21.28270 (13071823)	20.48076 (13071823)

```
 3774412.8 |     26.20696 (12081122)     22.44700 (13071323)     21.50515 (13071823)
    20.81861 (13071823)     20.14071 (13062305)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       14:32:36

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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    ,  . . .      ,

                                 *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       481153.46              481233.88              481314.30
      481394.72              481475.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774995.6 |     17.54707 (12071323)     16.95049 (12081324)     16.79580 (13070822)
    16.09122 (12020624)     15.83388 (13102223)
 3774966.4 |     17.26074 (12071323)     17.43605 (12081324)     16.77784 (12020624)
    16.35790 (13102223)     15.71310 (12071704)
 3774937.3 |     17.61147 (12081324)     17.30705 (12081324)     16.55637 (13102223)
    16.36139 (13102223)     16.04074 (12071704)
 3774908.1 |     17.79434 (12081324)     17.04078 (12021504)     16.62667 (13102223)
    16.56265 (12071704)     16.42173 (13071024)
 3774879.0 |     17.76612 (12081324)     17.21774 (13102223)     16.69818 (13090224)
    16.85621 (13071024)     16.53712 (13071024)
 3774849.9 |     17.37226 (12081324)     17.41981 (13090224)     16.89639 (13071024)
    16.97772 (13071024)     16.33784 (13071024)
 3774820.7 |     17.85383 (13090224)     17.52636 (13090224)     17.28245 (13071024)
    16.71498 (13071024)     16.30307 (13070303)
 3774791.6 |     18.17916 (13090224)     17.77274 (13071024)     17.27815 (13071024)
    16.58718 (13070303)     16.23929 (12082306)
 3774762.4 |     18.32391 (12081522)     18.15443 (13071024)     17.24294 (13070303)
```

```
    16.65943 (13070303)     16.52471 (13070323)
 3774733.3 |     18.49594 (13071024)     17.98304 (13071024)     17.33333 (13070303)
    16.91696 (13070323)     16.49791 (13070323)
 3774704.2 |     18.46597 (13071024)     18.31923 (13070303)     17.51586 (13070323)
    17.02244 (13070323)     16.77265 (12081705)
 3774675.0 |     18.76153 (13090822)     18.29928 (13070323)     17.63919 (13070323)
    17.18028 (12081705)     16.86110 (12081705)
 3774645.9 |     18.74802 (13090822)     18.56091 (13070323)     17.85993 (12081705)
    17.49774 (12081705)     16.77447 (12081705)
 3774616.7 |     18.95838 (13070323)     18.57893 (12081122)     17.99193 (12081705)
    17.17271 (12081705)     16.60914 (12082922)
 3774587.6 |     19.08056 (12081122)     18.53903 (12081705)     17.65361 (12081705)
    17.12699 (12082922)     16.47615 (13082403)
 3774558.5 |     18.90748 (12081122)     18.33155 (13071323)     17.65589 (12082922)
    17.30169 (13082403)     16.45477 (13082403)
 3774529.3 |     18.84483 (13071323)     17.95313 (13071823)     17.90018 (13082403)
    17.14545 (12080405)     16.71638 (12080405)
 3774500.2 |     18.90749 (13071823)     18.54397 (13071823)     17.74217 (12080405)
    17.33512 (12080405)     16.48604 (12092424)
 3774471.0 |     19.10480 (13071823)     18.79611 (12080405)     17.96516 (12080405)
    17.14368 (12092424)     16.66834 (12081424)
 3774441.9 |     18.79621 (13062305)     18.56908 (12092424)     17.86657 (12092424)
    17.32081 (12080605)     17.14986 (12080605)
 3774412.8 |     19.07020 (12092424)     18.67165 (12092424)     17.84001 (13071124)
    16.91423 (13071124)     17.51673 (12091921)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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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    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

Y-COORD | X-COORD (METERS)
(METERS) | 481555.56
- -

Y-COORD (METERS)	481555.56
3774995.6	15.61652 (12071704)
3774966.4	15.94929 (13071024)
3774937.3	16.30566 (13071024)
3774908.1	16.32977 (13071024)
3774879.0	16.09019 (12100724)
3774849.9	16.28110 (12100724)
3774820.7	16.21604 (12082306)
3774791.6	16.55171 (13071201)
3774762.4	16.73778 (12083005)
3774733.3	16.91581 (12081705)
3774704.2	16.83765 (12081705)
3774675.0	16.34842 (12081705)
3774645.9	16.10618 (12082922)
3774616.7	15.93425 (12082922)
3774587.6	15.86929 (12081401)
3774558.5	16.07322 (12080405)
3774529.3	16.52333 (12080405)
3774500.2	16.97461 (12081424)
3774471.0	15.44767 (12080605)
3774441.9	15.00875 (13071124)
3774412.8	14.76234 (12091921)

*** 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)
- -
- -
479863.12   3774072.39   753.74193 (12041107)   479886.61
3774069.62   524.81482 (12022716)
479901.46   3774140.43   310.73912 (12022716)   479777.12
3774147.34   258.87831 (13042407)
479777.47   3774161.50   215.42639 (13042407)

↑ *** AERMOD - VERSION 19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848
HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

ALL   1ST HIGHEST VALUE IS   278.60212 AT (479863.12, 3774072.39,   354.62,
2401.29,   0.00) DC
2ND HIGHEST VALUE IS   199.09596 AT (479886.61, 3774069.62,   355.04,
2401.29,   0.00) DC
3RD HIGHEST VALUE IS   77.26090 AT (479777.12, 3774147.34,   354.88,
2401.29,   0.00) DC
4TH HIGHEST VALUE IS   61.43539 AT (479777.47, 3774161.50,   355.07,
2401.29,   0.00) DC
5TH HIGHEST VALUE IS   56.09180 AT (479901.46, 3774140.43,   356.04,
2401.29,   0.00) DC
6TH HIGHEST VALUE IS   30.98520 AT (479807.70, 3774220.35,   355.30,
2401.30,   0.00) GC UCART1
7TH HIGHEST VALUE IS   29.97132 AT (479846.55, 3774220.35,   354.70,
2401.30,   0.00) GC UCART1
8TH HIGHEST VALUE IS   29.86467 AT (479768.85, 3774220.35,   355.00,
2401.30,   0.00) GC UCART1
9TH HIGHEST VALUE IS   27.19692 AT (479885.40, 3774220.35,   355.30,

```
 2401.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS      26.85027 AT (  479730.00,  3774220.35,   354.60,
 2401.30,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
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 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                      DATE
                                          NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     753.74193  ON 12041107: AT (  479863.12,
3774072.39,   354.62,  2401.29,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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 *** 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            2 Warning Message(s)
A Total of          388 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          191 Calm Hours Identified

A Total of          197 Missing Hours Identified (  0.45 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     360       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     360       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

```
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   131 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        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:    131 Source(s);       1 Source Group(s); and     887
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    131 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      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =   481.00 ;  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:   3rd&Central Construction.err

 **File for Summary of Results:   3rd&Central Construction.sum

 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE   2
 *** 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 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 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,

*** AERMOD - VERSION 19191 *** *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\Construction\3rd&C *** 04/05/22
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
   Surface file:   ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
                 Met Version:  16216
   Profile file:   ..\..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL

   Surface format: FREE

   Profile format: FREE
```

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

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
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	91.	9.1	284.0	5.5
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90	107.	9.1	285.0	5.5
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10	81.	10.1	289.1	5.5
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40	72.	9.1	295.1	5.5
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68	78.	10.1	297.9	5.5
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80	333.	9.1	299.4	5.5
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80	72.	9.1	300.4	5.5
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80	277.	9.1	301.0	5.5
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70	243.	9.1	301.0	5.5
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30	274.	9.1	300.1	5.5
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90	252.	9.1	298.2	5.5
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90	116.	9.1	296.4	5.5
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27	79.	10.1	292.2	5.5
12	01	01	1	20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90	95.	9.1	290.2	5.5

```
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:32:36

                                 PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                       NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS     278.60212 AT (  479863.12,  3774072.39,   354.62,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     199.09596 AT (  479886.61,  3774069.62,   355.04,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS      77.26090 AT (  479777.12,  3774147.34,   354.88,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS      61.43539 AT (  479777.47,  3774161.50,   355.07,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS      56.09180 AT (  479901.46,  3774140.43,   356.04,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS      30.98520 AT (  479807.70,  3774220.35,   355.30,
 2401.30,    0.00)  GC  UCART1
```

```
         7TH HIGHEST VALUE IS      29.97132 AT (  479846.55,  3774220.35,   354.70,
 2401.30,    0.00)  GC  UCART1
         8TH HIGHEST VALUE IS      29.86467 AT (  479768.85,  3774220.35,   355.00,
 2401.30,    0.00)  GC  UCART1
         9TH HIGHEST VALUE IS      27.19692 AT (  479885.40,  3774220.35,   355.30,
 2401.30,    0.00)  GC  UCART1
        10TH HIGHEST VALUE IS      26.85027 AT (  479730.00,  3774220.35,   354.60,
 2401.30,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                      DATE
                                           NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     753.74193  ON 12041107: AT (  479863.12,
3774072.39,   354.62,  2401.29,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\Construction\3rd&C ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:32:36

                                  PAGE   6
```

```
*** 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            2 Warning Message(s)
A Total of          388 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          191 Calm Hours Identified

A Total of          197 Missing Hours Identified (  0.45 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     360       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     360       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

HARP2 - HRACalc (dated 21081) 4/5/2022 9:36:44 AM - 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: 0.88

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.88
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: ON
16 years to 70 years: ON

**********************************
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\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Construction\hra\ResidentialNCAcuteRiskSumByRec.csv
HRA ran successfully
```

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	479147.3	3774220	8.79E-07	0.88YrCanc	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
2	ALL	UCART1	479186.1	3774220	9.67E-07	0.88YrCanc	9.67E-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
3	ALL	UCART1	479225	3774220	1.07E-06	0.88YrCanc	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
4	ALL	UCART1	479263.8	3774220	1.19E-06	0.88YrCanc	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
5	ALL	UCART1	479302.7	3774220	1.33E-06	0.88YrCanc	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
6	ALL	UCART1	479341.5	3774220	1.50E-06	0.88YrCanc	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
7	ALL	UCART1	479380.4	3774220	1.71E-06	0.88YrCanc	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
8	ALL	UCART1	479419.2	3774220	1.96E-06	0.88YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479458.1	3774220	2.27E-06	0.88YrCanc	2.27E-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
10	ALL	UCART1	479496.9	3774220	2.66E-06	0.88YrCanc	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
11	ALL	UCART1	479535.8	3774220	3.16E-06	0.88YrCanc	3.16E-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
12	ALL	UCART1	479574.6	3774220	3.79E-06	0.88YrCanc	3.79E-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
13	ALL	UCART1	479613.5	3774220	4.59E-06	0.88YrCanc	4.59E-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
14	ALL	UCART1	479652.3	3774220	5.58E-06	0.88YrCanc	5.58E-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
15	ALL	UCART1	479691.2	3774220	6.73E-06	0.88YrCanc	6.73E-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
16	ALL	UCART1	479730	3774220	7.89E-06	0.88YrCanc	7.89E-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
17	ALL	UCART1	479768.9	3774220	8.78E-06	0.88YrCanc	8.78E-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
18	ALL	UCART1	479807.7	3774220	9.11E-06	0.88YrCanc	9.11E-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
19	ALL	UCART1	479846.6	3774220	8.81E-06	0.88YrCanc	8.81E-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
20	ALL	UCART1	479885.4	3774220	7.99E-06	0.88YrCanc	7.99E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.3	3774220	6.94E-06	0.88YrCanc	6.94E-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
22	ALL	UCART1	479147.3	3774259	8.56E-07	0.88YrCanc	8.56E-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
23	ALL	UCART1	479186.1	3774259	9.39E-07	0.88YrCanc	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
24	ALL	UCART1	479225	3774259	1.03E-06	0.88YrCanc	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
25	ALL	UCART1	479263.8	3774259	1.14E-06	0.88YrCanc	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
26	ALL	UCART1	479302.7	3774259	1.27E-06	0.88YrCanc	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
27	ALL	UCART1	479341.5	3774259	1.43E-06	0.88YrCanc	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
28	ALL	UCART1	479380.4	3774259	1.61E-06	0.88YrCanc	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
29	ALL	UCART1	479419.2	3774259	1.83E-06	0.88YrCanc	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
30	ALL	UCART1	479458.1	3774259	2.10E-06	0.88YrCanc	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
31	ALL	UCART1	479496.9	3774259	2.42E-06	0.88YrCanc	2.42E-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
32	ALL	UCART1	479535.8	3774259	2.81E-06	0.88YrCanc	2.81E-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
33	ALL	UCART1	479574.6	3774259	3.28E-06	0.88YrCanc	3.28E-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
34	ALL	UCART1	479613.5	3774259	3.85E-06	0.88YrCanc	3.85E-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
35	ALL	UCART1	479652.3	3774259	4.49E-06	0.88YrCanc	4.49E-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
36	ALL	UCART1	479691.2	3774259	5.18E-06	0.88YrCanc	5.18E-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
37	ALL	UCART1	479730	3774259	5.82E-06	0.88YrCanc	5.82E-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
38	ALL	UCART1	479768.9	3774259	6.28E-06	0.88YrCanc	6.28E-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
39	ALL	UCART1	479807.7	3774259	6.45E-06	0.88YrCanc	6.45E-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
40	ALL	UCART1	479846.6	3774259	6.31E-06	0.88YrCanc	6.31E-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
41	ALL	UCART1	479885.4	3774259	5.89E-06	0.88YrCanc	5.89E-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
42	ALL	UCART1	479924.3	3774259	5.31E-06	0.88YrCanc	5.31E-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
43	ALL	UCART1	479147.3	3774298	8.31E-07	0.88YrCanc	8.31E-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
44	ALL	UCART1	479186.1	3774298	9.07E-07	0.88YrCanc	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
45	ALL	UCART1	479225	3774298	9.95E-07	0.88YrCanc	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
46	ALL	UCART1	479263.8	3774298	1.10E-06	0.88YrCanc	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
47	ALL	UCART1	479302.7	3774298	1.21E-06	0.88YrCanc	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
48	ALL	UCART1	479341.5	3774298	1.35E-06	0.88YrCanc	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
49	ALL	UCART1	479380.4	3774298	1.51E-06	0.88YrCanc	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
50	ALL	UCART1	479419.2	3774298	1.70E-06	0.88YrCanc	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
51	ALL	UCART1	479458.1	3774298	1.92E-06	0.88YrCanc	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
52	ALL	UCART1	479496.9	3774298	2.18E-06	0.88YrCanc	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
53	ALL	UCART1	479535.8	3774298	2.49E-06	0.88YrCanc	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
54	ALL	UCART1	479574.6	3774298	2.84E-06	0.88YrCanc	2.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479613.5	3774298	3.24E-06	0.88YrCanc	3.24E-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
56	ALL	UCART1	479652.3	3774298	3.67E-06	0.88YrCanc	3.67E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479691.2	3774298	4.10E-06	0.88YrCanc	4.10E-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
58	ALL	UCART1	479730	3774298	4.48E-06	0.88YrCanc	4.48E-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
59	ALL	UCART1	479768.9	3774298	4.75E-06	0.88YrCanc	4.75E-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
60	ALL	UCART1	479807.7	3774298	4.85E-06	0.88YrCanc	4.85E-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
61	ALL	UCART1	479846.6	3774298	4.77E-06	0.88YrCanc	4.77E-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
62	ALL	UCART1	479885.4	3774298	4.54E-06	0.88YrCanc	4.54E-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
63	ALL	UCART1	479924.3	3774298	4.19E-06	0.88YrCanc	4.19E-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
64	ALL	UCART1	479147.3	3774336	8.03E-07	0.88YrCanc	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
65	ALL	UCART1	479186.1	3774336	8.73E-07	0.88YrCanc	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
66	ALL	UCART1	479225	3774336	9.53E-07	0.88YrCanc	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
67	ALL	UCART1	479263.8	3774336	1.04E-06	0.88YrCanc	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
68	ALL	UCART1	479302.7	3774336	1.15E-06	0.88YrCanc	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
69	ALL	UCART1	479341.5	3774336	1.27E-06	0.88YrCanc	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
70	ALL	UCART1	479380.4	3774336	1.41E-06	0.88YrCanc	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
71	ALL	UCART1	479419.2	3774336	1.57E-06	0.88YrCanc	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
72	ALL	UCART1	479458.1	3774336	1.75E-06	0.88YrCanc	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
73	ALL	UCART1	479496.9	3774336	1.96E-06	0.88YrCanc	1.96E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479535.8	3774336	2.20E-06	0.88YrCanc	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
75	ALL	UCART1	479574.6	3774336	2.47E-06	0.88YrCanc	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
76	ALL	UCART1	479613.5	3774336	2.76E-06	0.88YrCanc	2.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479652.3	3774336	3.05E-06	0.88YrCanc	3.05E-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
78	ALL	UCART1	479691.2	3774336	3.33E-06	0.88YrCanc	3.33E-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
79	ALL	UCART1	479730	3774336	3.57E-06	0.88YrCanc	3.57E-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
80	ALL	UCART1	479768.9	3774336	3.73E-06	0.88YrCanc	3.73E-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
81	ALL	UCART1	479807.7	3774336	3.79E-06	0.88YrCanc	3.79E-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
82	ALL	UCART1	479846.6	3774336	3.75E-06	0.88YrCanc	3.75E-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
83	ALL	UCART1	479885.4	3774336	3.61E-06	0.88YrCanc	3.61E-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
84	ALL	UCART1	479924.3	3774336	3.39E-06	0.88YrCanc	3.39E-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
85	ALL	UCART1	479147.3	3774375	7.73E-07	0.88YrCanc	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
86	ALL	UCART1	479186.1	3774375	8.38E-07	0.88YrCanc	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
87	ALL	UCART1	479225	3774375	9.11E-07	0.88YrCanc	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
88	ALL	UCART1	479263.8	3774375	9.93E-07	0.88YrCanc	9.93E-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
89	ALL	UCART1	479302.7	3774375	1.09E-06	0.88YrCanc	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
90	ALL	UCART1	479341.5	3774375	1.19E-06	0.88YrCanc	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

91	ALL	UCART1	479380.4	3774375	1.31E-06	0.88YrCanc	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
92	ALL	UCART1	479419.2	3774375	1.45E-06	0.88YrCanc	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
93	ALL	UCART1	479458.1	3774375	1.60E-06	0.88YrCanc	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
94	ALL	UCART1	479496.9	3774375	1.77E-06	0.88YrCanc	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
95	ALL	UCART1	479535.8	3774375	1.95E-06	0.88YrCanc	1.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479574.6	3774375	2.16E-06	0.88YrCanc	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
97	ALL	UCART1	479613.5	3774375	2.36E-06	0.88YrCanc	2.36E-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
98	ALL	UCART1	479652.3	3774375	2.57E-06	0.88YrCanc	2.57E-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
99	ALL	UCART1	479691.2	3774375	2.76E-06	0.88YrCanc	2.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479730	3774375	2.92E-06	0.88YrCanc	2.92E-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
101	ALL	UCART1	479768.9	3774375	3.03E-06	0.88YrCanc	3.03E-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
102	ALL	UCART1	479807.7	3774375	3.07E-06	0.88YrCanc	3.07E-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
103	ALL	UCART1	479846.6	3774375	3.04E-06	0.88YrCanc	3.04E-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
104	ALL	UCART1	479885.4	3774375	2.95E-06	0.88YrCanc	2.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.3	3774375	2.81E-06	0.88YrCanc	2.81E-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
106	ALL	UCART1	479147.3	3774413	7.43E-07	0.88YrCanc	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
107	ALL	UCART1	479186.1	3774413	8.01E-07	0.88YrCanc	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
108	ALL	UCART1	479225	3774413	8.67E-07	0.88YrCanc	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
109	ALL	UCART1	479263.8	3774413	9.41E-07	0.88YrCanc	9.41E-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
110	ALL	UCART1	479302.7	3774413	1.02E-06	0.88YrCanc	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
111	ALL	UCART1	479341.5	3774413	1.11E-06	0.88YrCanc	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
112	ALL	UCART1	479380.4	3774413	1.22E-06	0.88YrCanc	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
113	ALL	UCART1	479419.2	3774413	1.33E-06	0.88YrCanc	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
114	ALL	UCART1	479458.1	3774413	1.46E-06	0.88YrCanc	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
115	ALL	UCART1	479496.9	3774413	1.59E-06	0.88YrCanc	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
116	ALL	UCART1	479535.8	3774413	1.74E-06	0.88YrCanc	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
117	ALL	UCART1	479574.6	3774413	1.89E-06	0.88YrCanc	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
118	ALL	UCART1	479613.5	3774413	2.05E-06	0.88YrCanc	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
119	ALL	UCART1	479652.3	3774413	2.20E-06	0.88YrCanc	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
120	ALL	UCART1	479691.2	3774413	2.33E-06	0.88YrCanc	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
121	ALL	UCART1	479730	3774413	2.44E-06	0.88YrCanc	2.44E-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
122	ALL	UCART1	479768.9	3774413	2.51E-06	0.88YrCanc	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
123	ALL	UCART1	479807.7	3774413	2.54E-06	0.88YrCanc	2.54E-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
124	ALL	UCART1	479846.6	3774413	2.52E-06	0.88YrCanc	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
125	ALL	UCART1	479885.4	3774413	2.46E-06	0.88YrCanc	2.46E-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
126	ALL	UCART1	479924.3	3774413	2.36E-06	0.88YrCanc	2.36E-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
127	ALL	UCART1	479147.3	3774452	7.12E-07	0.88YrCanc	7.12E-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
128	ALL	UCART1	479186.1	3774452	7.65E-07	0.88YrCanc	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
129	ALL	UCART1	479225	3774452	8.24E-07	0.88YrCanc	8.24E-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
130	ALL	UCART1	479263.8	3774452	8.89E-07	0.88YrCanc	8.89E-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
131	ALL	UCART1	479302.7	3774452	9.61E-07	0.88YrCanc	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
132	ALL	UCART1	479341.5	3774452	1.04E-06	0.88YrCanc	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
133	ALL	UCART1	479380.4	3774452	1.13E-06	0.88YrCanc	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
134	ALL	UCART1	479419.2	3774452	1.22E-06	0.88YrCanc	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
135	ALL	UCART1	479458.1	3774452	1.33E-06	0.88YrCanc	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
136	ALL	UCART1	479496.9	3774452	1.44E-06	0.88YrCanc	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
137	ALL	UCART1	479535.8	3774452	1.55E-06	0.88YrCanc	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
138	ALL	UCART1	479574.6	3774452	1.67E-06	0.88YrCanc	1.67E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479613.5	3774452	1.79E-06	0.88YrCanc	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
140	ALL	UCART1	479652.3	3774452	1.90E-06	0.88YrCanc	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
141	ALL	UCART1	479691.2	3774452	1.99E-06	0.88YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479730	3774452	2.07E-06	0.88YrCanc	2.07E-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
143	ALL	UCART1	479768.9	3774452	2.12E-06	0.88YrCanc	2.12E-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
144	ALL	UCART1	479807.7	3774452	2.14E-06	0.88YrCanc	2.14E-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
145	ALL	UCART1	479846.6	3774452	2.13E-06	0.88YrCanc	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
146	ALL	UCART1	479885.4	3774452	2.09E-06	0.88YrCanc	2.09E-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
147	ALL	UCART1	479924.3	3774452	2.02E-06	0.88YrCanc	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
148	ALL	UCART1	479147.3	3774491	6.81E-07	0.88YrCanc	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
149	ALL	UCART1	479186.1	3774491	7.29E-07	0.88YrCanc	7.29E-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
150	ALL	UCART1	479225	3774491	7.82E-07	0.88YrCanc	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
151	ALL	UCART1	479263.8	3774491	8.40E-07	0.88YrCanc	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
152	ALL	UCART1	479302.7	3774491	9.03E-07	0.88YrCanc	9.03E-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
153	ALL	UCART1	479341.5	3774491	9.72E-07	0.88YrCanc	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
154	ALL	UCART1	479380.4	3774491	1.05E-06	0.88YrCanc	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
155	ALL	UCART1	479419.2	3774491	1.13E-06	0.88YrCanc	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
156	ALL	UCART1	479458.1	3774491	1.21E-06	0.88YrCanc	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
157	ALL	UCART1	479496.9	3774491	1.30E-06	0.88YrCanc	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
158	ALL	UCART1	479535.8	3774491	1.39E-06	0.88YrCanc	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
159	ALL	UCART1	479574.6	3774491	1.49E-06	0.88YrCanc	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
160	ALL	UCART1	479613.5	3774491	1.58E-06	0.88YrCanc	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
161	ALL	UCART1	479652.3	3774491	1.66E-06	0.88YrCanc	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
162	ALL	UCART1	479691.2	3774491	1.73E-06	0.88YrCanc	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
163	ALL	UCART1	479730	3774491	1.79E-06	0.88YrCanc	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
164	ALL	UCART1	479768.9	3774491	1.82E-06	0.88YrCanc	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
165	ALL	UCART1	479807.7	3774491	1.84E-06	0.88YrCanc	1.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479846.6	3774491	1.83E-06	0.88YrCanc	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
167	ALL	UCART1	479885.4	3774491	1.80E-06	0.88YrCanc	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
168	ALL	UCART1	479924.3	3774491	1.75E-06	0.88YrCanc	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
169	ALL	UCART1	479147.3	3774529	6.50E-07	0.88YrCanc	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
170	ALL	UCART1	479186.1	3774529	6.94E-07	0.88YrCanc	6.94E-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
171	ALL	UCART1	479225	3774529	7.41E-07	0.88YrCanc	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
172	ALL	UCART1	479263.8	3774529	7.92E-07	0.88YrCanc	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
173	ALL	UCART1	479302.7	3774529	8.48E-07	0.88YrCanc	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
174	ALL	UCART1	479341.5	3774529	9.07E-07	0.88YrCanc	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
175	ALL	UCART1	479380.4	3774529	9.70E-07	0.88YrCanc	9.70E-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
176	ALL	UCART1	479419.2	3774529	1.04E-06	0.88YrCanc	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
177	ALL	UCART1	479458.1	3774529	1.11E-06	0.88YrCanc	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
178	ALL	UCART1	479496.9	3774529	1.18E-06	0.88YrCanc	1.18E-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
179	ALL	UCART1	479535.8	3774529	1.26E-06	0.88YrCanc	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
180	ALL	UCART1	479574.6	3774529	1.33E-06	0.88YrCanc	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
181	ALL	UCART1	479613.5	3774529	1.40E-06	0.88YrCanc	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

182	ALL	UCART1	479652.3	3774529	1.46E-06	0.88YrCanc	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
183	ALL	UCART1	479691.2	3774529	1.52E-06	0.88YrCanc	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
184	ALL	UCART1	479730	3774529	1.56E-06	0.88YrCanc	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
185	ALL	UCART1	479768.9	3774529	1.58E-06	0.88YrCanc	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
186	ALL	UCART1	479807.7	3774529	1.59E-06	0.88YrCanc	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
187	ALL	UCART1	479846.6	3774529	1.59E-06	0.88YrCanc	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
188	ALL	UCART1	479885.4	3774529	1.57E-06	0.88YrCanc	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
189	ALL	UCART1	479924.3	3774529	1.53E-06	0.88YrCanc	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
190	ALL	UCART1	479147.3	3774568	6.21E-07	0.88YrCanc	6.21E-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
191	ALL	UCART1	479186.1	3774568	6.60E-07	0.88YrCanc	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
192	ALL	UCART1	479225	3774568	7.02E-07	0.88YrCanc	7.02E-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
193	ALL	UCART1	479263.8	3774568	7.47E-07	0.88YrCanc	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
194	ALL	UCART1	479302.7	3774568	7.95E-07	0.88YrCanc	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
195	ALL	UCART1	479341.5	3774568	8.47E-07	0.88YrCanc	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
196	ALL	UCART1	479380.4	3774568	9.01E-07	0.88YrCanc	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
197	ALL	UCART1	479419.2	3774568	9.58E-07	0.88YrCanc	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
198	ALL	UCART1	479458.1	3774568	1.02E-06	0.88YrCanc	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
199	ALL	UCART1	479496.9	3774568	1.08E-06	0.88YrCanc	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
200	ALL	UCART1	479535.8	3774568	1.14E-06	0.88YrCanc	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
201	ALL	UCART1	479574.6	3774568	1.19E-06	0.88YrCanc	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
202	ALL	UCART1	479613.5	3774568	1.25E-06	0.88YrCanc	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
203	ALL	UCART1	479652.3	3774568	1.30E-06	0.88YrCanc	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
204	ALL	UCART1	479691.2	3774568	1.34E-06	0.88YrCanc	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
205	ALL	UCART1	479730	3774568	1.37E-06	0.88YrCanc	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
206	ALL	UCART1	479768.9	3774568	1.39E-06	0.88YrCanc	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
207	ALL	UCART1	479807.7	3774568	1.40E-06	0.88YrCanc	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
208	ALL	UCART1	479846.6	3774568	1.40E-06	0.88YrCanc	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
209	ALL	UCART1	479885.4	3774568	1.38E-06	0.88YrCanc	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
210	ALL	UCART1	479924.3	3774568	1.35E-06	0.88YrCanc	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
211	ALL	UCART1	479147.3	3774606	5.92E-07	0.88YrCanc	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
212	ALL	UCART1	479186.1	3774606	6.27E-07	0.88YrCanc	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
213	ALL	UCART1	479225	3774606	6.64E-07	0.88YrCanc	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
214	ALL	UCART1	479263.8	3774606	7.04E-07	0.88YrCanc	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
215	ALL	UCART1	479302.7	3774606	7.46E-07	0.88YrCanc	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
216	ALL	UCART1	479341.5	3774606	7.91E-07	0.88YrCanc	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
217	ALL	UCART1	479380.4	3774606	8.37E-07	0.88YrCanc	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
218	ALL	UCART1	479419.2	3774606	8.85E-07	0.88YrCanc	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
219	ALL	UCART1	479458.1	3774606	9.34E-07	0.88YrCanc	9.34E-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
220	ALL	UCART1	479496.9	3774606	9.84E-07	0.88YrCanc	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
221	ALL	UCART1	479535.8	3774606	1.03E-06	0.88YrCanc	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
222	ALL	UCART1	479574.6	3774606	1.08E-06	0.88YrCanc	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
223	ALL	UCART1	479613.5	3774606	1.12E-06	0.88YrCanc	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
224	ALL	UCART1	479652.3	3774606	1.16E-06	0.88YrCanc	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
225	ALL	UCART1	479691.2	3774606	1.19E-06	0.88YrCanc	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
226	ALL	UCART1	479730	3774606	1.22E-06	0.88YrCanc	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
227	ALL	UCART1	479768.9	3774606	1.23E-06	0.88YrCanc	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
228	ALL	UCART1	479807.7	3774606	1.24E-06	0.88YrCanc	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
229	ALL	UCART1	479846.6	3774606	1.24E-06	0.88YrCanc	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
230	ALL	UCART1	479885.4	3774606	1.22E-06	0.88YrCanc	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
231	ALL	UCART1	479924.3	3774606	1.20E-06	0.88YrCanc	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
232	ALL	UCART1	479147.3	3774645	5.64E-07	0.88YrCanc	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
233	ALL	UCART1	479186.1	3774645	5.95E-07	0.88YrCanc	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
234	ALL	UCART1	479225	3774645	6.29E-07	0.88YrCanc	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
235	ALL	UCART1	479263.8	3774645	6.64E-07	0.88YrCanc	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
236	ALL	UCART1	479302.7	3774645	7.01E-07	0.88YrCanc	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
237	ALL	UCART1	479341.5	3774645	7.39E-07	0.88YrCanc	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
238	ALL	UCART1	479380.4	3774645	7.79E-07	0.88YrCanc	7.79E-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
239	ALL	UCART1	479419.2	3774645	8.20E-07	0.88YrCanc	8.20E-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
240	ALL	UCART1	479458.1	3774645	8.61E-07	0.88YrCanc	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
241	ALL	UCART1	479496.9	3774645	9.03E-07	0.88YrCanc	9.03E-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
242	ALL	UCART1	479535.8	3774645	9.43E-07	0.88YrCanc	9.43E-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
243	ALL	UCART1	479574.6	3774645	9.81E-07	0.88YrCanc	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
244	ALL	UCART1	479613.5	3774645	1.02E-06	0.88YrCanc	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
245	ALL	UCART1	479652.3	3774645	1.05E-06	0.88YrCanc	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
246	ALL	UCART1	479691.2	3774645	1.07E-06	0.88YrCanc	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
247	ALL	UCART1	479730	3774645	1.09E-06	0.88YrCanc	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
248	ALL	UCART1	479768.9	3774645	1.10E-06	0.88YrCanc	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
249	ALL	UCART1	479807.7	3774645	1.11E-06	0.88YrCanc	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
250	ALL	UCART1	479846.6	3774645	1.11E-06	0.88YrCanc	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
251	ALL	UCART1	479885.4	3774645	1.10E-06	0.88YrCanc	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
252	ALL	UCART1	479924.3	3774645	1.08E-06	0.88YrCanc	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
253	ALL	UCART1	479147.3	3774684	5.37E-07	0.88YrCanc	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
254	ALL	UCART1	479186.1	3774684	5.66E-07	0.88YrCanc	5.66E-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
255	ALL	UCART1	479225	3774684	5.95E-07	0.88YrCanc	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
256	ALL	UCART1	479263.8	3774684	6.26E-07	0.88YrCanc	6.26E-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
257	ALL	UCART1	479302.7	3774684	6.58E-07	0.88YrCanc	6.58E-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
258	ALL	UCART1	479341.5	3774684	6.92E-07	0.88YrCanc	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
259	ALL	UCART1	479380.4	3774684	7.26E-07	0.88YrCanc	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
260	ALL	UCART1	479419.2	3774684	7.61E-07	0.88YrCanc	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
261	ALL	UCART1	479458.1	3774684	7.96E-07	0.88YrCanc	7.96E-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
262	ALL	UCART1	479496.9	3774684	8.31E-07	0.88YrCanc	8.31E-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
263	ALL	UCART1	479535.8	3774684	8.64E-07	0.88YrCanc	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
264	ALL	UCART1	479574.6	3774684	8.95E-07	0.88YrCanc	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
265	ALL	UCART1	479613.5	3774684	9.24E-07	0.88YrCanc	9.24E-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
266	ALL	UCART1	479652.3	3774684	9.49E-07	0.88YrCanc	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
267	ALL	UCART1	479691.2	3774684	9.70E-07	0.88YrCanc	9.70E-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
268	ALL	UCART1	479730	3774684	9.85E-07	0.88YrCanc	9.85E-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
269	ALL	UCART1	479768.9	3774684	9.95E-07	0.88YrCanc	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
270	ALL	UCART1	479807.7	3774684	9.99E-07	0.88YrCanc	9.99E-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
271	ALL	UCART1	479846.6	3774684	9.96E-07	0.88YrCanc	9.96E-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
272	ALL	UCART1	479885.4	3774684	9.88E-07	0.88YrCanc	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

273	ALL	UCART1	479924.3	3774684	9.74E-07	0.88YrCanc	9.74E-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
274	ALL	UCART1	479147.3	3774722	5.12E-07	0.88YrCanc	5.12E-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
275	ALL	UCART1	479186.1	3774722	5.37E-07	0.88YrCanc	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
276	ALL	UCART1	479225	3774722	5.64E-07	0.88YrCanc	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
277	ALL	UCART1	479263.8	3774722	5.91E-07	0.88YrCanc	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
278	ALL	UCART1	479302.7	3774722	6.19E-07	0.88YrCanc	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
279	ALL	UCART1	479341.5	3774722	6.49E-07	0.88YrCanc	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
280	ALL	UCART1	479380.4	3774722	6.78E-07	0.88YrCanc	6.78E-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
281	ALL	UCART1	479419.2	3774722	7.08E-07	0.88YrCanc	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
282	ALL	UCART1	479458.1	3774722	7.38E-07	0.88YrCanc	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
283	ALL	UCART1	479496.9	3774722	7.67E-07	0.88YrCanc	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
284	ALL	UCART1	479535.8	3774722	7.95E-07	0.88YrCanc	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
285	ALL	UCART1	479574.6	3774722	8.21E-07	0.88YrCanc	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
286	ALL	UCART1	479613.5	3774722	8.44E-07	0.88YrCanc	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
287	ALL	UCART1	479652.3	3774722	8.65E-07	0.88YrCanc	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
288	ALL	UCART1	479691.2	3774722	8.81E-07	0.88YrCanc	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
289	ALL	UCART1	479730	3774722	8.94E-07	0.88YrCanc	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
290	ALL	UCART1	479768.9	3774722	9.02E-07	0.88YrCanc	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
291	ALL	UCART1	479807.7	3774722	9.05E-07	0.88YrCanc	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
292	ALL	UCART1	479846.6	3774722	9.03E-07	0.88YrCanc	9.03E-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
293	ALL	UCART1	479885.4	3774722	8.96E-07	0.88YrCanc	8.96E-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
294	ALL	UCART1	479924.3	3774722	8.85E-07	0.88YrCanc	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
295	ALL	UCART1	479147.3	3774761	4.88E-07	0.88YrCanc	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
296	ALL	UCART1	479186.1	3774761	5.11E-07	0.88YrCanc	5.11E-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
297	ALL	UCART1	479225	3774761	5.34E-07	0.88YrCanc	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
298	ALL	UCART1	479263.8	3774761	5.58E-07	0.88YrCanc	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
299	ALL	UCART1	479302.7	3774761	5.83E-07	0.88YrCanc	5.83E-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
300	ALL	UCART1	479341.5	3774761	6.09E-07	0.88YrCanc	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
301	ALL	UCART1	479380.4	3774761	6.34E-07	0.88YrCanc	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
302	ALL	UCART1	479419.2	3774761	6.60E-07	0.88YrCanc	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
303	ALL	UCART1	479458.1	3774761	6.85E-07	0.88YrCanc	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
304	ALL	UCART1	479496.9	3774761	7.10E-07	0.88YrCanc	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
305	ALL	UCART1	479535.8	3774761	7.33E-07	0.88YrCanc	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
306	ALL	UCART1	479574.6	3774761	7.55E-07	0.88YrCanc	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
307	ALL	UCART1	479613.5	3774761	7.74E-07	0.88YrCanc	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
308	ALL	UCART1	479652.3	3774761	7.91E-07	0.88YrCanc	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
309	ALL	UCART1	479691.2	3774761	8.05E-07	0.88YrCanc	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
310	ALL	UCART1	479730	3774761	8.15E-07	0.88YrCanc	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
311	ALL	UCART1	479768.9	3774761	8.22E-07	0.88YrCanc	8.22E-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
312	ALL	UCART1	479807.7	3774761	8.24E-07	0.88YrCanc	8.24E-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
313	ALL	UCART1	479846.6	3774761	8.23E-07	0.88YrCanc	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
314	ALL	UCART1	479885.4	3774761	8.17E-07	0.88YrCanc	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
315	ALL	UCART1	479924.3	3774761	8.08E-07	0.88YrCanc	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
316	ALL	UCART1	479147.3	3774800	4.65E-07	0.88YrCanc	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
317	ALL	UCART1	479186.1	3774800	4.85E-07	0.88YrCanc	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
318	ALL	UCART1	479225	3774800	5.06E-07	0.88YrCanc	5.06E-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	UCART1	479263.8	3774800	5.28E-07	0.88YrCanc	5.28E-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
320	ALL	UCART1	479302.7	3774800	5.50E-07	0.88YrCanc	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
321	ALL	UCART1	479341.5	3774800	5.72E-07	0.88YrCanc	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
322	ALL	UCART1	479380.4	3774800	5.94E-07	0.88YrCanc	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
323	ALL	UCART1	479419.2	3774800	6.17E-07	0.88YrCanc	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
324	ALL	UCART1	479458.1	3774800	6.38E-07	0.88YrCanc	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
325	ALL	UCART1	479496.9	3774800	6.59E-07	0.88YrCanc	6.59E-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
326	ALL	UCART1	479535.8	3774800	6.79E-07	0.88YrCanc	6.79E-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
327	ALL	UCART1	479574.6	3774800	6.97E-07	0.88YrCanc	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
328	ALL	UCART1	479613.5	3774800	7.13E-07	0.88YrCanc	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
329	ALL	UCART1	479652.3	3774800	7.27E-07	0.88YrCanc	7.27E-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
330	ALL	UCART1	479691.2	3774800	7.39E-07	0.88YrCanc	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
331	ALL	UCART1	479730	3774800	7.47E-07	0.88YrCanc	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
332	ALL	UCART1	479768.9	3774800	7.53E-07	0.88YrCanc	7.53E-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
333	ALL	UCART1	479807.7	3774800	7.55E-07	0.88YrCanc	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
334	ALL	UCART1	479846.6	3774800	7.54E-07	0.88YrCanc	7.54E-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
335	ALL	UCART1	479885.4	3774800	7.49E-07	0.88YrCanc	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
336	ALL	UCART1	479924.3	3774800	7.41E-07	0.88YrCanc	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
337	ALL	UCART1	479147.3	3774838	4.44E-07	0.88YrCanc	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
338	ALL	UCART1	479186.1	3774838	4.62E-07	0.88YrCanc	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
339	ALL	UCART1	479225	3774838	4.80E-07	0.88YrCanc	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
340	ALL	UCART1	479263.8	3774838	5.00E-07	0.88YrCanc	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
341	ALL	UCART1	479302.7	3774838	5.19E-07	0.88YrCanc	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
342	ALL	UCART1	479341.5	3774838	5.38E-07	0.88YrCanc	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
343	ALL	UCART1	479380.4	3774838	5.58E-07	0.88YrCanc	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
344	ALL	UCART1	479419.2	3774838	5.77E-07	0.88YrCanc	5.77E-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
345	ALL	UCART1	479458.1	3774838	5.96E-07	0.88YrCanc	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
346	ALL	UCART1	479496.9	3774838	6.14E-07	0.88YrCanc	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
347	ALL	UCART1	479535.8	3774838	6.30E-07	0.88YrCanc	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
348	ALL	UCART1	479574.6	3774838	6.46E-07	0.88YrCanc	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
349	ALL	UCART1	479613.5	3774838	6.60E-07	0.88YrCanc	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
350	ALL	UCART1	479652.3	3774838	6.71E-07	0.88YrCanc	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
351	ALL	UCART1	479691.2	3774838	6.81E-07	0.88YrCanc	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
352	ALL	UCART1	479730	3774838	6.88E-07	0.88YrCanc	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
353	ALL	UCART1	479768.9	3774838	6.93E-07	0.88YrCanc	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
354	ALL	UCART1	479807.7	3774838	6.94E-07	0.88YrCanc	6.94E-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
355	ALL	UCART1	479846.6	3774838	6.93E-07	0.88YrCanc	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
356	ALL	UCART1	479885.4	3774838	6.89E-07	0.88YrCanc	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
357	ALL	UCART1	479924.3	3774838	6.83E-07	0.88YrCanc	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
358	ALL	UCART1	479147.3	3774877	4.23E-07	0.88YrCanc	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
359	ALL	UCART1	479186.1	3774877	4.40E-07	0.88YrCanc	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
360	ALL	UCART1	479225	3774877	4.56E-07	0.88YrCanc	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
361	ALL	UCART1	479263.8	3774877	4.73E-07	0.88YrCanc	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
362	ALL	UCART1	479302.7	3774877	4.90E-07	0.88YrCanc	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
363	ALL	UCART1	479341.5	3774877	5.07E-07	0.88YrCanc	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

364	ALL	UCART1	479380.4	3774877	5.24E-07	0.88YrCanc	5.24E-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
365	ALL	UCART1	479419.2	3774877	5.41E-07	0.88YrCanc	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
366	ALL	UCART1	479458.1	3774877	5.57E-07	0.88YrCanc	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
367	ALL	UCART1	479496.9	3774877	5.73E-07	0.88YrCanc	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
368	ALL	UCART1	479535.8	3774877	5.87E-07	0.88YrCanc	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
369	ALL	UCART1	479574.6	3774877	6.00E-07	0.88YrCanc	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
370	ALL	UCART1	479613.5	3774877	6.12E-07	0.88YrCanc	6.12E-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
371	ALL	UCART1	479652.3	3774877	6.22E-07	0.88YrCanc	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
372	ALL	UCART1	479691.2	3774877	6.30E-07	0.88YrCanc	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
373	ALL	UCART1	479730	3774877	6.36E-07	0.88YrCanc	6.36E-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
374	ALL	UCART1	479768.9	3774877	6.40E-07	0.88YrCanc	6.40E-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
375	ALL	UCART1	479807.7	3774877	6.41E-07	0.88YrCanc	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
376	ALL	UCART1	479846.6	3774877	6.40E-07	0.88YrCanc	6.40E-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
377	ALL	UCART1	479885.4	3774877	6.37E-07	0.88YrCanc	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
378	ALL	UCART1	479924.3	3774877	6.32E-07	0.88YrCanc	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
379	ALL	UCART1	479147.3	3774915	4.04E-07	0.88YrCanc	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
380	ALL	UCART1	479186.1	3774915	4.19E-07	0.88YrCanc	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
381	ALL	UCART1	479225	3774915	4.33E-07	0.88YrCanc	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
382	ALL	UCART1	479263.8	3774915	4.49E-07	0.88YrCanc	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
383	ALL	UCART1	479302.7	3774915	4.64E-07	0.88YrCanc	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
384	ALL	UCART1	479341.5	3774915	4.79E-07	0.88YrCanc	4.79E-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
385	ALL	UCART1	479380.4	3774915	4.94E-07	0.88YrCanc	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
386	ALL	UCART1	479419.2	3774915	5.08E-07	0.88YrCanc	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
387	ALL	UCART1	479458.1	3774915	5.23E-07	0.88YrCanc	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
388	ALL	UCART1	479496.9	3774915	5.36E-07	0.88YrCanc	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
389	ALL	UCART1	479535.8	3774915	5.48E-07	0.88YrCanc	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
390	ALL	UCART1	479574.6	3774915	5.59E-07	0.88YrCanc	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
391	ALL	UCART1	479613.5	3774915	5.70E-07	0.88YrCanc	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
392	ALL	UCART1	479652.3	3774915	5.78E-07	0.88YrCanc	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
393	ALL	UCART1	479691.2	3774915	5.85E-07	0.88YrCanc	5.85E-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
394	ALL	UCART1	479730	3774915	5.90E-07	0.88YrCanc	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
395	ALL	UCART1	479768.9	3774915	5.93E-07	0.88YrCanc	5.93E-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
396	ALL	UCART1	479807.7	3774915	5.94E-07	0.88YrCanc	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
397	ALL	UCART1	479846.6	3774915	5.94E-07	0.88YrCanc	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
398	ALL	UCART1	479885.4	3774915	5.91E-07	0.88YrCanc	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
399	ALL	UCART1	479924.3	3774915	5.86E-07	0.88YrCanc	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
400	ALL	UCART1	479147.3	3774954	3.86E-07	0.88YrCanc	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
401	ALL	UCART1	479186.1	3774954	3.99E-07	0.88YrCanc	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
402	ALL	UCART1	479225	3774954	4.12E-07	0.88YrCanc	4.12E-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
403	ALL	UCART1	479263.8	3774954	4.26E-07	0.88YrCanc	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
404	ALL	UCART1	479302.7	3774954	4.39E-07	0.88YrCanc	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
405	ALL	UCART1	479341.5	3774954	4.53E-07	0.88YrCanc	4.53E-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
406	ALL	UCART1	479380.4	3774954	4.66E-07	0.88YrCanc	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
407	ALL	UCART1	479419.2	3774954	4.79E-07	0.88YrCanc	4.79E-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
408	ALL	UCART1	479458.1	3774954	4.91E-07	0.88YrCanc	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
409	ALL	UCART1	479496.9	3774954	5.03E-07	0.88YrCanc	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
410	ALL	UCART1	479535.8	3774954	5.13E-07	0.88YrCanc	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
411	ALL	UCART1	479574.6	3774954	5.23E-07	0.88YrCanc	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
412	ALL	UCART1	479613.5	3774954	5.31E-07	0.88YrCanc	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
413	ALL	UCART1	479652.3	3774954	5.39E-07	0.88YrCanc	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
414	ALL	UCART1	479691.2	3774954	5.45E-07	0.88YrCanc	5.45E-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
415	ALL	UCART1	479730	3774954	5.49E-07	0.88YrCanc	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
416	ALL	UCART1	479768.9	3774954	5.52E-07	0.88YrCanc	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
417	ALL	UCART1	479807.7	3774954	5.53E-07	0.88YrCanc	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
418	ALL	UCART1	479846.6	3774954	5.52E-07	0.88YrCanc	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
419	ALL	UCART1	479885.4	3774954	5.50E-07	0.88YrCanc	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
420	ALL	UCART1	479924.3	3774954	5.46E-07	0.88YrCanc	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
421	ALL	UCART1	479147.3	3774993	3.69E-07	0.88YrCanc	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
422	ALL	UCART1	479186.1	3774993	3.80E-07	0.88YrCanc	3.80E-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
423	ALL	UCART1	479225	3774993	3.92E-07	0.88YrCanc	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
424	ALL	UCART1	479263.8	3774993	4.05E-07	0.88YrCanc	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
425	ALL	UCART1	479302.7	3774993	4.17E-07	0.88YrCanc	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
426	ALL	UCART1	479341.5	3774993	4.28E-07	0.88YrCanc	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
427	ALL	UCART1	479380.4	3774993	4.40E-07	0.88YrCanc	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
428	ALL	UCART1	479419.2	3774993	4.51E-07	0.88YrCanc	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
429	ALL	UCART1	479458.1	3774993	4.62E-07	0.88YrCanc	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
430	ALL	UCART1	479496.9	3774993	4.72E-07	0.88YrCanc	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
431	ALL	UCART1	479535.8	3774993	4.82E-07	0.88YrCanc	4.82E-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
432	ALL	UCART1	479574.6	3774993	4.90E-07	0.88YrCanc	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
433	ALL	UCART1	479613.5	3774993	4.97E-07	0.88YrCanc	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
434	ALL	UCART1	479652.3	3774993	5.04E-07	0.88YrCanc	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
435	ALL	UCART1	479691.2	3774993	5.09E-07	0.88YrCanc	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
436	ALL	UCART1	479730	3774993	5.12E-07	0.88YrCanc	5.12E-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
437	ALL	UCART1	479768.9	3774993	5.15E-07	0.88YrCanc	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
438	ALL	UCART1	479807.7	3774993	5.16E-07	0.88YrCanc	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
439	ALL	UCART1	479846.6	3774993	5.15E-07	0.88YrCanc	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
440	ALL	UCART1	479885.4	3774993	5.13E-07	0.88YrCanc	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
441	ALL	UCART1	479924.3	3774993	5.10E-07	0.88YrCanc	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
442	ALL	UCART2	479947.2	3774413	2.30E-06	0.88YrCanc	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
443	ALL	UCART2	480027.6	3774413	2.00E-06	0.88YrCanc	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
444	ALL	UCART2	480108	3774413	1.68E-06	0.88YrCanc	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
445	ALL	UCART2	480188.4	3774413	1.40E-06	0.88YrCanc	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
446	ALL	UCART2	480268.8	3774413	1.17E-06	0.88YrCanc	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
447	ALL	UCART2	480349.3	3774413	9.69E-07	0.88YrCanc	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
448	ALL	UCART2	480429.7	3774413	8.46E-07	0.88YrCanc	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
449	ALL	UCART2	480510.1	3774413	7.25E-07	0.88YrCanc	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
450	ALL	UCART2	480590.5	3774413	6.36E-07	0.88YrCanc	6.36E-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
451	ALL	UCART2	480670.9	3774413	5.66E-07	0.88YrCanc	5.66E-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
452	ALL	UCART2	480751.4	3774413	4.90E-07	0.88YrCanc	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
453	ALL	UCART2	480831.8	3774413	4.54E-07	0.88YrCanc	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
454	ALL	UCART2	480912.2	3774413	4.09E-07	0.88YrCanc	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

455	ALL	UCART2	480992.6	3774413	3.68E-07	0.88YrCanc	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
456	ALL	UCART2	481073	3774413	3.32E-07	0.88YrCanc	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
457	ALL	UCART2	481153.5	3774413	3.08E-07	0.88YrCanc	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
458	ALL	UCART2	481233.9	3774413	2.83E-07	0.88YrCanc	2.83E-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
459	ALL	UCART2	481314.3	3774413	2.63E-07	0.88YrCanc	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
460	ALL	UCART2	481394.7	3774413	2.47E-07	0.88YrCanc	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
461	ALL	UCART2	481475.1	3774413	2.27E-07	0.88YrCanc	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
462	ALL	UCART2	481555.6	3774413	2.20E-07	0.88YrCanc	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
463	ALL	UCART2	479947.2	3774442	2.04E-06	0.88YrCanc	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
464	ALL	UCART2	480027.6	3774442	1.81E-06	0.88YrCanc	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
465	ALL	UCART2	480108	3774442	1.51E-06	0.88YrCanc	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
466	ALL	UCART2	480188.4	3774442	1.28E-06	0.88YrCanc	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
467	ALL	UCART2	480268.8	3774442	1.10E-06	0.88YrCanc	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
468	ALL	UCART2	480349.3	3774442	9.21E-07	0.88YrCanc	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
469	ALL	UCART2	480429.7	3774442	7.87E-07	0.88YrCanc	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
470	ALL	UCART2	480510.1	3774442	6.87E-07	0.88YrCanc	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
471	ALL	UCART2	480590.5	3774442	6.06E-07	0.88YrCanc	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
472	ALL	UCART2	480670.9	3774442	5.32E-07	0.88YrCanc	5.32E-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
473	ALL	UCART2	480751.4	3774442	4.68E-07	0.88YrCanc	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
474	ALL	UCART2	480831.8	3774442	4.24E-07	0.88YrCanc	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
475	ALL	UCART2	480912.2	3774442	3.84E-07	0.88YrCanc	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
476	ALL	UCART2	480992.6	3774442	3.49E-07	0.88YrCanc	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
477	ALL	UCART2	481073	3774442	3.18E-07	0.88YrCanc	3.18E-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
478	ALL	UCART2	481153.5	3774442	2.95E-07	0.88YrCanc	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
479	ALL	UCART2	481233.9	3774442	2.71E-07	0.88YrCanc	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
480	ALL	UCART2	481314.3	3774442	2.52E-07	0.88YrCanc	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
481	ALL	UCART2	481394.7	3774442	2.35E-07	0.88YrCanc	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
482	ALL	UCART2	481475.1	3774442	2.19E-07	0.88YrCanc	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
483	ALL	UCART2	481555.6	3774442	2.11E-07	0.88YrCanc	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
484	ALL	UCART2	479947.2	3774471	1.83E-06	0.88YrCanc	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
485	ALL	UCART2	480027.6	3774471	1.65E-06	0.88YrCanc	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
486	ALL	UCART2	480108	3774471	1.37E-06	0.88YrCanc	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
487	ALL	UCART2	480188.4	3774471	1.19E-06	0.88YrCanc	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
488	ALL	UCART2	480268.8	3774471	1.04E-06	0.88YrCanc	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
489	ALL	UCART2	480349.3	3774471	8.70E-07	0.88YrCanc	8.70E-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
490	ALL	UCART2	480429.7	3774471	7.52E-07	0.88YrCanc	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
491	ALL	UCART2	480510.1	3774471	6.57E-07	0.88YrCanc	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
492	ALL	UCART2	480590.5	3774471	5.78E-07	0.88YrCanc	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
493	ALL	UCART2	480670.9	3774471	4.99E-07	0.88YrCanc	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
494	ALL	UCART2	480751.4	3774471	4.51E-07	0.88YrCanc	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
495	ALL	UCART2	480831.8	3774471	4.08E-07	0.88YrCanc	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
496	ALL	UCART2	480912.2	3774471	3.71E-07	0.88YrCanc	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
497	ALL	UCART2	480992.6	3774471	3.38E-07	0.88YrCanc	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
498	ALL	UCART2	481073	3774471	3.07E-07	0.88YrCanc	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
499	ALL	UCART2	481153.5	3774471	2.83E-07	0.88YrCanc	2.83E-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
500	ALL	UCART2	481233.9	3774471	2.59E-07	0.88YrCanc	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
501	ALL	UCART2	481314.3	3774471	2.42E-07	0.88YrCanc	2.42E-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
502	ALL	UCART2	481394.7	3774471	2.27E-07	0.88YrCanc	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
503	ALL	UCART2	481475.1	3774471	2.12E-07	0.88YrCanc	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
504	ALL	UCART2	481555.6	3774471	2.02E-07	0.88YrCanc	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
505	ALL	UCART2	479947.2	3774500	1.65E-06	0.88YrCanc	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
506	ALL	UCART2	480027.6	3774500	1.50E-06	0.88YrCanc	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
507	ALL	UCART2	480108	3774500	1.27E-06	0.88YrCanc	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
508	ALL	UCART2	480188.4	3774500	1.11E-06	0.88YrCanc	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
509	ALL	UCART2	480268.8	3774500	9.72E-07	0.88YrCanc	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
510	ALL	UCART2	480349.3	3774500	8.26E-07	0.88YrCanc	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
511	ALL	UCART2	480429.7	3774500	7.18E-07	0.88YrCanc	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
512	ALL	UCART2	480510.1	3774500	6.31E-07	0.88YrCanc	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
513	ALL	UCART2	480590.5	3774500	5.58E-07	0.88YrCanc	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
514	ALL	UCART2	480670.9	3774500	4.80E-07	0.88YrCanc	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
515	ALL	UCART2	480751.4	3774500	4.34E-07	0.88YrCanc	4.34E-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
516	ALL	UCART2	480831.8	3774500	3.92E-07	0.88YrCanc	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
517	ALL	UCART2	480912.2	3774500	3.55E-07	0.88YrCanc	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
518	ALL	UCART2	480992.6	3774500	3.23E-07	0.88YrCanc	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
519	ALL	UCART2	481073	3774500	2.94E-07	0.88YrCanc	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
520	ALL	UCART2	481153.5	3774500	2.73E-07	0.88YrCanc	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
521	ALL	UCART2	481233.9	3774500	2.50E-07	0.88YrCanc	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
522	ALL	UCART2	481314.3	3774500	2.33E-07	0.88YrCanc	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
523	ALL	UCART2	481394.7	3774500	2.17E-07	0.88YrCanc	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
524	ALL	UCART2	481475.1	3774500	2.05E-07	0.88YrCanc	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
525	ALL	UCART2	481555.6	3774500	1.89E-07	0.88YrCanc	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
526	ALL	UCART2	479947.2	3774529	1.50E-06	0.88YrCanc	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
527	ALL	UCART2	480027.6	3774529	1.38E-06	0.88YrCanc	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
528	ALL	UCART2	480108	3774529	1.17E-06	0.88YrCanc	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
529	ALL	UCART2	480188.4	3774529	1.03E-06	0.88YrCanc	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
530	ALL	UCART2	480268.8	3774529	9.06E-07	0.88YrCanc	9.06E-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
531	ALL	UCART2	480349.3	3774529	7.83E-07	0.88YrCanc	7.83E-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
532	ALL	UCART2	480429.7	3774529	6.84E-07	0.88YrCanc	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
533	ALL	UCART2	480510.1	3774529	6.03E-07	0.88YrCanc	6.03E-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
534	ALL	UCART2	480590.5	3774529	5.36E-07	0.88YrCanc	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
535	ALL	UCART2	480670.9	3774529	4.61E-07	0.88YrCanc	4.61E-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
536	ALL	UCART2	480751.4	3774529	4.17E-07	0.88YrCanc	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
537	ALL	UCART2	480831.8	3774529	3.75E-07	0.88YrCanc	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
538	ALL	UCART2	480912.2	3774529	3.40E-07	0.88YrCanc	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
539	ALL	UCART2	480992.6	3774529	3.09E-07	0.88YrCanc	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
540	ALL	UCART2	481073	3774529	2.84E-07	0.88YrCanc	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
541	ALL	UCART2	481153.5	3774529	2.63E-07	0.88YrCanc	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
542	ALL	UCART2	481233.9	3774529	2.43E-07	0.88YrCanc	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
543	ALL	UCART2	481314.3	3774529	2.24E-07	0.88YrCanc	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
544	ALL	UCART2	481394.7	3774529	2.09E-07	0.88YrCanc	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
545	ALL	UCART2	481475.1	3774529	1.96E-07	0.88YrCanc	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

546	ALL	UCART2	481555.6	3774529	1.83E-07	0.88YrCanc	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
547	ALL	UCART2	479947.2	3774558	1.37E-06	0.88YrCanc	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
548	ALL	UCART2	480027.6	3774558	1.26E-06	0.88YrCanc	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
549	ALL	UCART2	480108	3774558	1.11E-06	0.88YrCanc	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
550	ALL	UCART2	480188.4	3774558	9.64E-07	0.88YrCanc	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
551	ALL	UCART2	480268.8	3774558	8.49E-07	0.88YrCanc	8.49E-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
552	ALL	UCART2	480349.3	3774558	7.43E-07	0.88YrCanc	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
553	ALL	UCART2	480429.7	3774558	6.53E-07	0.88YrCanc	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
554	ALL	UCART2	480510.1	3774558	5.78E-07	0.88YrCanc	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
555	ALL	UCART2	480590.5	3774558	5.14E-07	0.88YrCanc	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
556	ALL	UCART2	480670.9	3774558	4.43E-07	0.88YrCanc	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
557	ALL	UCART2	480751.4	3774558	4.01E-07	0.88YrCanc	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
558	ALL	UCART2	480831.8	3774558	3.63E-07	0.88YrCanc	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
559	ALL	UCART2	480912.2	3774558	3.30E-07	0.88YrCanc	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
560	ALL	UCART2	480992.6	3774558	3.01E-07	0.88YrCanc	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
561	ALL	UCART2	481073	3774558	2.74E-07	0.88YrCanc	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
562	ALL	UCART2	481153.5	3774558	2.53E-07	0.88YrCanc	2.53E-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
563	ALL	UCART2	481233.9	3774558	2.33E-07	0.88YrCanc	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
564	ALL	UCART2	481314.3	3774558	2.16E-07	0.88YrCanc	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
565	ALL	UCART2	481394.7	3774558	2.01E-07	0.88YrCanc	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
566	ALL	UCART2	481475.1	3774558	1.89E-07	0.88YrCanc	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
567	ALL	UCART2	481555.6	3774558	1.79E-07	0.88YrCanc	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
568	ALL	UCART2	479947.2	3774588	1.25E-06	0.88YrCanc	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
569	ALL	UCART2	480027.6	3774588	1.17E-06	0.88YrCanc	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
570	ALL	UCART2	480108	3774588	1.04E-06	0.88YrCanc	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
571	ALL	UCART2	480188.4	3774588	9.05E-07	0.88YrCanc	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
572	ALL	UCART2	480268.8	3774588	8.00E-07	0.88YrCanc	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
573	ALL	UCART2	480349.3	3774588	7.06E-07	0.88YrCanc	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
574	ALL	UCART2	480429.7	3774588	6.26E-07	0.88YrCanc	6.26E-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
575	ALL	UCART2	480510.1	3774588	5.54E-07	0.88YrCanc	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
576	ALL	UCART2	480590.5	3774588	4.96E-07	0.88YrCanc	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
577	ALL	UCART2	480670.9	3774588	4.26E-07	0.88YrCanc	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
578	ALL	UCART2	480751.4	3774588	3.85E-07	0.88YrCanc	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
579	ALL	UCART2	480831.8	3774588	3.51E-07	0.88YrCanc	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
580	ALL	UCART2	480912.2	3774588	3.20E-07	0.88YrCanc	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
581	ALL	UCART2	480992.6	3774588	2.91E-07	0.88YrCanc	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
582	ALL	UCART2	481073	3774588	2.64E-07	0.88YrCanc	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
583	ALL	UCART2	481153.5	3774588	2.44E-07	0.88YrCanc	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
584	ALL	UCART2	481233.9	3774588	2.25E-07	0.88YrCanc	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
585	ALL	UCART2	481314.3	3774588	2.09E-07	0.88YrCanc	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
586	ALL	UCART2	481394.7	3774588	1.95E-07	0.88YrCanc	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
587	ALL	UCART2	481475.1	3774588	1.83E-07	0.88YrCanc	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
588	ALL	UCART2	481555.6	3774588	1.73E-07	0.88YrCanc	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
589	ALL	UCART2	479947.2	3774617	1.15E-06	0.88YrCanc	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
590	ALL	UCART2	480027.6	3774617	1.08E-06	0.88YrCanc	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
591	ALL	UCART2	480108	3774617	9.69E-07	0.88YrCanc	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
592	ALL	UCART2	480188.4	3774617	8.53E-07	0.88YrCanc	8.53E-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
593	ALL	UCART2	480268.8	3774617	7.54E-07	0.88YrCanc	7.54E-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
594	ALL	UCART2	480349.3	3774617	6.70E-07	0.88YrCanc	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
595	ALL	UCART2	480429.7	3774617	5.98E-07	0.88YrCanc	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
596	ALL	UCART2	480510.1	3774617	5.32E-07	0.88YrCanc	5.32E-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
597	ALL	UCART2	480590.5	3774617	4.77E-07	0.88YrCanc	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
598	ALL	UCART2	480670.9	3774617	4.12E-07	0.88YrCanc	4.12E-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
599	ALL	UCART2	480751.4	3774617	3.72E-07	0.88YrCanc	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
600	ALL	UCART2	480831.8	3774617	3.38E-07	0.88YrCanc	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
601	ALL	UCART2	480912.2	3774617	3.06E-07	0.88YrCanc	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
602	ALL	UCART2	480992.6	3774617	2.80E-07	0.88YrCanc	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
603	ALL	UCART2	481073	3774617	2.55E-07	0.88YrCanc	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
604	ALL	UCART2	481153.5	3774617	2.35E-07	0.88YrCanc	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
605	ALL	UCART2	481233.9	3774617	2.16E-07	0.88YrCanc	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
606	ALL	UCART2	481314.3	3774617	2.02E-07	0.88YrCanc	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
607	ALL	UCART2	481394.7	3774617	1.89E-07	0.88YrCanc	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
608	ALL	UCART2	481475.1	3774617	1.77E-07	0.88YrCanc	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
609	ALL	UCART2	481555.6	3774617	1.67E-07	0.88YrCanc	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
610	ALL	UCART2	479947.2	3774646	1.06E-06	0.88YrCanc	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
611	ALL	UCART2	480027.6	3774646	1.00E-06	0.88YrCanc	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
612	ALL	UCART2	480108	3774646	9.13E-07	0.88YrCanc	9.13E-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
613	ALL	UCART2	480188.4	3774646	8.09E-07	0.88YrCanc	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
614	ALL	UCART2	480268.8	3774646	7.17E-07	0.88YrCanc	7.17E-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
615	ALL	UCART2	480349.3	3774646	6.38E-07	0.88YrCanc	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
616	ALL	UCART2	480429.7	3774646	5.70E-07	0.88YrCanc	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
617	ALL	UCART2	480510.1	3774646	5.10E-07	0.88YrCanc	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
618	ALL	UCART2	480590.5	3774646	4.59E-07	0.88YrCanc	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
619	ALL	UCART2	480670.9	3774646	3.97E-07	0.88YrCanc	3.97E-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
620	ALL	UCART2	480751.4	3774646	3.58E-07	0.88YrCanc	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
621	ALL	UCART2	480831.8	3774646	3.28E-07	0.88YrCanc	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
622	ALL	UCART2	480912.2	3774646	2.99E-07	0.88YrCanc	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
623	ALL	UCART2	480992.6	3774646	2.73E-07	0.88YrCanc	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
624	ALL	UCART2	481073	3774646	2.48E-07	0.88YrCanc	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
625	ALL	UCART2	481153.5	3774646	2.27E-07	0.88YrCanc	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
626	ALL	UCART2	481233.9	3774646	2.09E-07	0.88YrCanc	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
627	ALL	UCART2	481314.3	3774646	1.95E-07	0.88YrCanc	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
628	ALL	UCART2	481394.7	3774646	1.82E-07	0.88YrCanc	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
629	ALL	UCART2	481475.1	3774646	1.71E-07	0.88YrCanc	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
630	ALL	UCART2	481555.6	3774646	1.62E-07	0.88YrCanc	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
631	ALL	UCART2	479947.2	3774675	9.85E-07	0.88YrCanc	9.85E-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
632	ALL	UCART2	480027.6	3774675	9.33E-07	0.88YrCanc	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
633	ALL	UCART2	480108	3774675	8.59E-07	0.88YrCanc	8.59E-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
634	ALL	UCART2	480188.4	3774675	7.71E-07	0.88YrCanc	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
635	ALL	UCART2	480268.8	3774675	6.85E-07	0.88YrCanc	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
636	ALL	UCART2	480349.3	3774675	6.07E-07	0.88YrCanc	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

637	ALL	UCART2	480429.7	3774675	5.46E-07	0.88YrCanc	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
638	ALL	UCART2	480510.1	3774675	4.91E-07	0.88YrCanc	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
639	ALL	UCART2	480590.5	3774675	4.41E-07	0.88YrCanc	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
640	ALL	UCART2	480670.9	3774675	3.85E-07	0.88YrCanc	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
641	ALL	UCART2	480751.4	3774675	3.46E-07	0.88YrCanc	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
642	ALL	UCART2	480831.8	3774675	3.16E-07	0.88YrCanc	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
643	ALL	UCART2	480912.2	3774675	2.88E-07	0.88YrCanc	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
644	ALL	UCART2	480992.6	3774675	2.63E-07	0.88YrCanc	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
645	ALL	UCART2	481073	3774675	2.41E-07	0.88YrCanc	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
646	ALL	UCART2	481153.5	3774675	2.20E-07	0.88YrCanc	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
647	ALL	UCART2	481233.9	3774675	2.03E-07	0.88YrCanc	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
648	ALL	UCART2	481314.3	3774675	1.90E-07	0.88YrCanc	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
649	ALL	UCART2	481394.7	3774675	1.77E-07	0.88YrCanc	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
650	ALL	UCART2	481475.1	3774675	1.66E-07	0.88YrCanc	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
651	ALL	UCART2	481555.6	3774675	1.56E-07	0.88YrCanc	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
652	ALL	UCART2	479947.2	3774704	9.16E-07	0.88YrCanc	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
653	ALL	UCART2	480027.6	3774704	8.71E-07	0.88YrCanc	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
654	ALL	UCART2	480108	3774704	7.97E-07	0.88YrCanc	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
655	ALL	UCART2	480188.4	3774704	7.16E-07	0.88YrCanc	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
656	ALL	UCART2	480268.8	3774704	6.44E-07	0.88YrCanc	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
657	ALL	UCART2	480349.3	3774704	5.78E-07	0.88YrCanc	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
658	ALL	UCART2	480429.7	3774704	5.21E-07	0.88YrCanc	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
659	ALL	UCART2	480510.1	3774704	4.70E-07	0.88YrCanc	4.70E-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
660	ALL	UCART2	480590.5	3774704	4.23E-07	0.88YrCanc	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
661	ALL	UCART2	480670.9	3774704	3.73E-07	0.88YrCanc	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
662	ALL	UCART2	480751.4	3774704	3.34E-07	0.88YrCanc	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
663	ALL	UCART2	480831.8	3774704	3.07E-07	0.88YrCanc	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
664	ALL	UCART2	480912.2	3774704	2.78E-07	0.88YrCanc	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
665	ALL	UCART2	480992.6	3774704	2.53E-07	0.88YrCanc	2.53E-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
666	ALL	UCART2	481073	3774704	2.32E-07	0.88YrCanc	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
667	ALL	UCART2	481153.5	3774704	2.13E-07	0.88YrCanc	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
668	ALL	UCART2	481233.9	3774704	1.96E-07	0.88YrCanc	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
669	ALL	UCART2	481314.3	3774704	1.84E-07	0.88YrCanc	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
670	ALL	UCART2	481394.7	3774704	1.72E-07	0.88YrCanc	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
671	ALL	UCART2	481475.1	3774704	1.61E-07	0.88YrCanc	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
672	ALL	UCART2	481555.6	3774704	1.50E-07	0.88YrCanc	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
673	ALL	UCART2	479947.2	3774733	8.54E-07	0.88YrCanc	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
674	ALL	UCART2	480027.6	3774733	8.00E-07	0.88YrCanc	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
675	ALL	UCART2	480108	3774733	7.38E-07	0.88YrCanc	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
676	ALL	UCART2	480188.4	3774733	6.69E-07	0.88YrCanc	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
677	ALL	UCART2	480268.8	3774733	6.08E-07	0.88YrCanc	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
678	ALL	UCART2	480349.3	3774733	5.52E-07	0.88YrCanc	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
679	ALL	UCART2	480429.7	3774733	5.00E-07	0.88YrCanc	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
680	ALL	UCART2	480510.1	3774733	4.49E-07	0.88YrCanc	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
681	ALL	UCART2	480590.5	3774733	4.05E-07	0.88YrCanc	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
682	ALL	UCART2	480670.9	3774733	3.62E-07	0.88YrCanc	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
683	ALL	UCART2	480751.4	3774733	3.22E-07	0.88YrCanc	3.22E-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
684	ALL	UCART2	480831.8	3774733	2.96E-07	0.88YrCanc	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
685	ALL	UCART2	480912.2	3774733	2.69E-07	0.88YrCanc	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
686	ALL	UCART2	480992.6	3774733	2.45E-07	0.88YrCanc	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
687	ALL	UCART2	481073	3774733	2.25E-07	0.88YrCanc	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
688	ALL	UCART2	481153.5	3774733	2.07E-07	0.88YrCanc	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
689	ALL	UCART2	481233.9	3774733	1.91E-07	0.88YrCanc	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
690	ALL	UCART2	481314.3	3774733	1.79E-07	0.88YrCanc	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
691	ALL	UCART2	481394.7	3774733	1.67E-07	0.88YrCanc	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
692	ALL	UCART2	481475.1	3774733	1.57E-07	0.88YrCanc	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
693	ALL	UCART2	481555.6	3774733	1.45E-07	0.88YrCanc	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
694	ALL	UCART2	479947.2	3774762	7.98E-07	0.88YrCanc	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
695	ALL	UCART2	480027.6	3774762	7.47E-07	0.88YrCanc	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
696	ALL	UCART2	480108	3774762	6.82E-07	0.88YrCanc	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
697	ALL	UCART2	480188.4	3774762	6.30E-07	0.88YrCanc	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
698	ALL	UCART2	480268.8	3774762	5.79E-07	0.88YrCanc	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
699	ALL	UCART2	480349.3	3774762	5.28E-07	0.88YrCanc	5.28E-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
700	ALL	UCART2	480429.7	3774762	4.80E-07	0.88YrCanc	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
701	ALL	UCART2	480510.1	3774762	4.32E-07	0.88YrCanc	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
702	ALL	UCART2	480590.5	3774762	3.90E-07	0.88YrCanc	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
703	ALL	UCART2	480670.9	3774762	3.44E-07	0.88YrCanc	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
704	ALL	UCART2	480751.4	3774762	3.12E-07	0.88YrCanc	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
705	ALL	UCART2	480831.8	3774762	2.84E-07	0.88YrCanc	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
706	ALL	UCART2	480912.2	3774762	2.60E-07	0.88YrCanc	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
707	ALL	UCART2	480992.6	3774762	2.36E-07	0.88YrCanc	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
708	ALL	UCART2	481073	3774762	2.17E-07	0.88YrCanc	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
709	ALL	UCART2	481153.5	3774762	2.01E-07	0.88YrCanc	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
710	ALL	UCART2	481233.9	3774762	1.86E-07	0.88YrCanc	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
711	ALL	UCART2	481314.3	3774762	1.74E-07	0.88YrCanc	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
712	ALL	UCART2	481394.7	3774762	1.63E-07	0.88YrCanc	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
713	ALL	UCART2	481475.1	3774762	1.52E-07	0.88YrCanc	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
714	ALL	UCART2	481555.6	3774762	1.40E-07	0.88YrCanc	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
715	ALL	UCART2	479947.2	3774792	7.48E-07	0.88YrCanc	7.48E-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
716	ALL	UCART2	480027.6	3774792	7.03E-07	0.88YrCanc	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
717	ALL	UCART2	480108	3774792	6.49E-07	0.88YrCanc	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
718	ALL	UCART2	480188.4	3774792	5.99E-07	0.88YrCanc	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
719	ALL	UCART2	480268.8	3774792	5.51E-07	0.88YrCanc	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
720	ALL	UCART2	480349.3	3774792	5.05E-07	0.88YrCanc	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
721	ALL	UCART2	480429.7	3774792	4.60E-07	0.88YrCanc	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
722	ALL	UCART2	480510.1	3774792	4.16E-07	0.88YrCanc	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
723	ALL	UCART2	480590.5	3774792	3.76E-07	0.88YrCanc	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
724	ALL	UCART2	480670.9	3774792	3.30E-07	0.88YrCanc	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
725	ALL	UCART2	480751.4	3774792	3.01E-07	0.88YrCanc	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
726	ALL	UCART2	480831.8	3774792	2.75E-07	0.88YrCanc	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
727	ALL	UCART2	480912.2	3774792	2.52E-07	0.88YrCanc	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

728	ALL	UCART2	480992.6	3774792	2.30E-07	0.88YrCanc	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
729	ALL	UCART2	481073	3774792	2.10E-07	0.88YrCanc	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
730	ALL	UCART2	481153.5	3774792	1.96E-07	0.88YrCanc	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
731	ALL	UCART2	481233.9	3774792	1.81E-07	0.88YrCanc	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
732	ALL	UCART2	481314.3	3774792	1.69E-07	0.88YrCanc	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
733	ALL	UCART2	481394.7	3774792	1.58E-07	0.88YrCanc	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
734	ALL	UCART2	481475.1	3774792	1.48E-07	0.88YrCanc	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
735	ALL	UCART2	481555.6	3774792	1.36E-07	0.88YrCanc	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
736	ALL	UCART2	479947.2	3774821	7.03E-07	0.88YrCanc	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
737	ALL	UCART2	480027.6	3774821	6.62E-07	0.88YrCanc	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
738	ALL	UCART2	480108	3774821	6.13E-07	0.88YrCanc	6.13E-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
739	ALL	UCART2	480188.4	3774821	5.68E-07	0.88YrCanc	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
740	ALL	UCART2	480268.8	3774821	5.25E-07	0.88YrCanc	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
741	ALL	UCART2	480349.3	3774821	4.83E-07	0.88YrCanc	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
742	ALL	UCART2	480429.7	3774821	4.42E-07	0.88YrCanc	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
743	ALL	UCART2	480510.1	3774821	4.02E-07	0.88YrCanc	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
744	ALL	UCART2	480590.5	3774821	3.64E-07	0.88YrCanc	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
745	ALL	UCART2	480670.9	3774821	3.20E-07	0.88YrCanc	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
746	ALL	UCART2	480751.4	3774821	2.92E-07	0.88YrCanc	2.92E-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
747	ALL	UCART2	480831.8	3774821	2.70E-07	0.88YrCanc	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
748	ALL	UCART2	480912.2	3774821	2.48E-07	0.88YrCanc	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
749	ALL	UCART2	480992.6	3774821	2.25E-07	0.88YrCanc	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
750	ALL	UCART2	481073	3774821	2.06E-07	0.88YrCanc	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
751	ALL	UCART2	481153.5	3774821	1.90E-07	0.88YrCanc	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
752	ALL	UCART2	481233.9	3774821	1.76E-07	0.88YrCanc	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
753	ALL	UCART2	481314.3	3774821	1.65E-07	0.88YrCanc	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
754	ALL	UCART2	481394.7	3774821	1.54E-07	0.88YrCanc	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
755	ALL	UCART2	481475.1	3774821	1.43E-07	0.88YrCanc	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
756	ALL	UCART2	481555.6	3774821	1.33E-07	0.88YrCanc	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
757	ALL	UCART2	479947.2	3774850	6.62E-07	0.88YrCanc	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
758	ALL	UCART2	480027.6	3774850	6.21E-07	0.88YrCanc	6.21E-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
759	ALL	UCART2	480108	3774850	5.82E-07	0.88YrCanc	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
760	ALL	UCART2	480188.4	3774850	5.40E-07	0.88YrCanc	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
761	ALL	UCART2	480268.8	3774850	5.01E-07	0.88YrCanc	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
762	ALL	UCART2	480349.3	3774850	4.62E-07	0.88YrCanc	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
763	ALL	UCART2	480429.7	3774850	4.26E-07	0.88YrCanc	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
764	ALL	UCART2	480510.1	3774850	3.89E-07	0.88YrCanc	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
765	ALL	UCART2	480590.5	3774850	3.53E-07	0.88YrCanc	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
766	ALL	UCART2	480670.9	3774850	3.13E-07	0.88YrCanc	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
767	ALL	UCART2	480751.4	3774850	2.82E-07	0.88YrCanc	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
768	ALL	UCART2	480831.8	3774850	2.59E-07	0.88YrCanc	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
769	ALL	UCART2	480912.2	3774850	2.40E-07	0.88YrCanc	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
770	ALL	UCART2	480992.6	3774850	2.19E-07	0.88YrCanc	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
771	ALL	UCART2	481073	3774850	2.00E-07	0.88YrCanc	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
772	ALL	UCART2	481153.5	3774850	1.85E-07	0.88YrCanc	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
773	ALL	UCART2	481233.9	3774850	1.71E-07	0.88YrCanc	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
774	ALL	UCART2	481314.3	3774850	1.60E-07	0.88YrCanc	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
775	ALL	UCART2	481394.7	3774850	1.49E-07	0.88YrCanc	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
776	ALL	UCART2	481475.1	3774850	1.40E-07	0.88YrCanc	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
777	ALL	UCART2	481555.6	3774850	1.30E-07	0.88YrCanc	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
778	ALL	UCART2	479947.2	3774879	6.25E-07	0.88YrCanc	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
779	ALL	UCART2	480027.6	3774879	5.93E-07	0.88YrCanc	5.93E-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
780	ALL	UCART2	480108	3774879	5.50E-07	0.88YrCanc	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
781	ALL	UCART2	480188.4	3774879	5.14E-07	0.88YrCanc	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
782	ALL	UCART2	480268.8	3774879	4.79E-07	0.88YrCanc	4.79E-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
783	ALL	UCART2	480349.3	3774879	4.43E-07	0.88YrCanc	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
784	ALL	UCART2	480429.7	3774879	4.10E-07	0.88YrCanc	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
785	ALL	UCART2	480510.1	3774879	3.76E-07	0.88YrCanc	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
786	ALL	UCART2	480590.5	3774879	3.42E-07	0.88YrCanc	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
787	ALL	UCART2	480670.9	3774879	2.99E-07	0.88YrCanc	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
788	ALL	UCART2	480751.4	3774879	2.73E-07	0.88YrCanc	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
789	ALL	UCART2	480831.8	3774879	2.53E-07	0.88YrCanc	2.53E-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
790	ALL	UCART2	480912.2	3774879	2.31E-07	0.88YrCanc	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
791	ALL	UCART2	480992.6	3774879	2.12E-07	0.88YrCanc	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
792	ALL	UCART2	481073	3774879	1.94E-07	0.88YrCanc	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
793	ALL	UCART2	481153.5	3774879	1.80E-07	0.88YrCanc	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
794	ALL	UCART2	481233.9	3774879	1.66E-07	0.88YrCanc	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
795	ALL	UCART2	481314.3	3774879	1.56E-07	0.88YrCanc	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
796	ALL	UCART2	481394.7	3774879	1.45E-07	0.88YrCanc	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
797	ALL	UCART2	481475.1	3774879	1.36E-07	0.88YrCanc	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
798	ALL	UCART2	481555.6	3774879	1.27E-07	0.88YrCanc	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
799	ALL	UCART2	479947.2	3774908	5.91E-07	0.88YrCanc	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
800	ALL	UCART2	480027.6	3774908	5.47E-07	0.88YrCanc	5.47E-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
801	ALL	UCART2	480108	3774908	5.26E-07	0.88YrCanc	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
802	ALL	UCART2	480188.4	3774908	4.92E-07	0.88YrCanc	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
803	ALL	UCART2	480268.8	3774908	4.58E-07	0.88YrCanc	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
804	ALL	UCART2	480349.3	3774908	4.25E-07	0.88YrCanc	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
805	ALL	UCART2	480429.7	3774908	3.94E-07	0.88YrCanc	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
806	ALL	UCART2	480510.1	3774908	3.62E-07	0.88YrCanc	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
807	ALL	UCART2	480590.5	3774908	3.30E-07	0.88YrCanc	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
808	ALL	UCART2	480670.9	3774908	2.93E-07	0.88YrCanc	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
809	ALL	UCART2	480751.4	3774908	2.65E-07	0.88YrCanc	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
810	ALL	UCART2	480831.8	3774908	2.46E-07	0.88YrCanc	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
811	ALL	UCART2	480912.2	3774908	2.25E-07	0.88YrCanc	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
812	ALL	UCART2	480992.6	3774908	2.06E-07	0.88YrCanc	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
813	ALL	UCART2	481073	3774908	1.89E-07	0.88YrCanc	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
814	ALL	UCART2	481153.5	3774908	1.75E-07	0.88YrCanc	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
815	ALL	UCART2	481233.9	3774908	1.62E-07	0.88YrCanc	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
816	ALL	UCART2	481314.3	3774908	1.52E-07	0.88YrCanc	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
817	ALL	UCART2	481394.7	3774908	1.41E-07	0.88YrCanc	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
818	ALL	UCART2	481475.1	3774908	1.33E-07	0.88YrCanc	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

819	ALL	UCART2	481555.6	3774908	1.24E-07	0.88YrCanc	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
820	ALL	UCART2	479947.2	3774937	5.60E-07	0.88YrCanc	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
821	ALL	UCART2	480027.6	3774937	5.22E-07	0.88YrCanc	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
822	ALL	UCART2	480108	3774937	5.02E-07	0.88YrCanc	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
823	ALL	UCART2	480188.4	3774937	4.70E-07	0.88YrCanc	4.70E-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
824	ALL	UCART2	480268.8	3774937	4.39E-07	0.88YrCanc	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
825	ALL	UCART2	480349.3	3774937	4.09E-07	0.88YrCanc	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
826	ALL	UCART2	480429.7	3774937	3.81E-07	0.88YrCanc	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
827	ALL	UCART2	480510.1	3774937	3.50E-07	0.88YrCanc	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
828	ALL	UCART2	480590.5	3774937	3.20E-07	0.88YrCanc	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
829	ALL	UCART2	480670.9	3774937	2.88E-07	0.88YrCanc	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
830	ALL	UCART2	480751.4	3774937	2.57E-07	0.88YrCanc	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
831	ALL	UCART2	480831.8	3774937	2.40E-07	0.88YrCanc	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
832	ALL	UCART2	480912.2	3774937	2.19E-07	0.88YrCanc	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
833	ALL	UCART2	480992.6	3774937	2.01E-07	0.88YrCanc	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
834	ALL	UCART2	481073	3774937	1.84E-07	0.88YrCanc	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
835	ALL	UCART2	481153.5	3774937	1.71E-07	0.88YrCanc	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
836	ALL	UCART2	481233.9	3774937	1.58E-07	0.88YrCanc	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
837	ALL	UCART2	481314.3	3774937	1.47E-07	0.88YrCanc	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
838	ALL	UCART2	481394.7	3774937	1.38E-07	0.88YrCanc	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
839	ALL	UCART2	481475.1	3774937	1.30E-07	0.88YrCanc	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
840	ALL	UCART2	481555.6	3774937	1.21E-07	0.88YrCanc	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
841	ALL	UCART2	479947.2	3774966	5.31E-07	0.88YrCanc	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
842	ALL	UCART2	480027.6	3774966	5.02E-07	0.88YrCanc	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
843	ALL	UCART2	480108	3774966	4.79E-07	0.88YrCanc	4.79E-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
844	ALL	UCART2	480188.4	3774966	4.49E-07	0.88YrCanc	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
845	ALL	UCART2	480268.8	3774966	4.20E-07	0.88YrCanc	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
846	ALL	UCART2	480349.3	3774966	3.93E-07	0.88YrCanc	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
847	ALL	UCART2	480429.7	3774966	3.66E-07	0.88YrCanc	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
848	ALL	UCART2	480510.1	3774966	3.37E-07	0.88YrCanc	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
849	ALL	UCART2	480590.5	3774966	3.10E-07	0.88YrCanc	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
850	ALL	UCART2	480670.9	3774966	2.76E-07	0.88YrCanc	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
851	ALL	UCART2	480751.4	3774966	2.49E-07	0.88YrCanc	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
852	ALL	UCART2	480831.8	3774966	2.34E-07	0.88YrCanc	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
853	ALL	UCART2	480912.2	3774966	2.14E-07	0.88YrCanc	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
854	ALL	UCART2	480992.6	3774966	1.96E-07	0.88YrCanc	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
855	ALL	UCART2	481073	3774966	1.80E-07	0.88YrCanc	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
856	ALL	UCART2	481153.5	3774966	1.66E-07	0.88YrCanc	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
857	ALL	UCART2	481233.9	3774966	1.53E-07	0.88YrCanc	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
858	ALL	UCART2	481314.3	3774966	1.43E-07	0.88YrCanc	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
859	ALL	UCART2	481394.7	3774966	1.34E-07	0.88YrCanc	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
860	ALL	UCART2	481475.1	3774966	1.27E-07	0.88YrCanc	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
861	ALL	UCART2	481555.6	3774966	1.19E-07	0.88YrCanc	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
862	ALL	UCART2	479947.2	3774996	5.05E-07	0.88YrCanc	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
863	ALL	UCART2	480027.6	3774996	4.81E-07	0.88YrCanc	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
864	ALL	UCART2	480108	3774996	4.58E-07	0.88YrCanc	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
865	ALL	UCART2	480188.4	3774996	4.29E-07	0.88YrCanc	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
866	ALL	UCART2	480268.8	3774996	4.03E-07	0.88YrCanc	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
867	ALL	UCART2	480349.3	3774996	3.78E-07	0.88YrCanc	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
868	ALL	UCART2	480429.7	3774996	3.53E-07	0.88YrCanc	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
869	ALL	UCART2	480510.1	3774996	3.28E-07	0.88YrCanc	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
870	ALL	UCART2	480590.5	3774996	3.00E-07	0.88YrCanc	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
871	ALL	UCART2	480670.9	3774996	2.73E-07	0.88YrCanc	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
872	ALL	UCART2	480751.4	3774996	2.41E-07	0.88YrCanc	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
873	ALL	UCART2	480831.8	3774996	2.28E-07	0.88YrCanc	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
874	ALL	UCART2	480912.2	3774996	2.09E-07	0.88YrCanc	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
875	ALL	UCART2	480992.6	3774996	1.92E-07	0.88YrCanc	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
876	ALL	UCART2	481073	3774996	1.75E-07	0.88YrCanc	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
877	ALL	UCART2	481153.5	3774996	1.61E-07	0.88YrCanc	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
878	ALL	UCART2	481233.9	3774996	1.51E-07	0.88YrCanc	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
879	ALL	UCART2	481314.3	3774996	1.40E-07	0.88YrCanc	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
880	ALL	UCART2	481394.7	3774996	1.31E-07	0.88YrCanc	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
881	ALL	UCART2	481475.1	3774996	1.24E-07	0.88YrCanc	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
882	ALL	UCART2	481555.6	3774996	1.16E-07	0.88YrCanc	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
883	ALL		479863.1	3774072	8.19E-05	0.88YrCanc	8.19E-05	0.00E+00	0.00E+00	0.00E+00	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		479886.6	3774070	5.85E-05	0.88YrCanc	5.85E-05	0.00E+00	0.00E+00	0.00E+00	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		479901.5	3774140	1.65E-05	0.88YrCanc	1.65E-05	0.00E+00	0.00E+00	0.00E+00	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		479777.1	3774147	2.27E-05	0.88YrCanc	2.27E-05	0.00E+00	0.00E+00	0.00E+00	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		479777.5	3774162	1.81E-05	0.88YrCanc	1.81E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479147.3	3774220	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
2	ALL	UCART1	479186.1	3774220	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
3	ALL	UCART1	479225	3774220	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
4	ALL	UCART1	479263.8	3774220	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
5	ALL	UCART1	479302.7	3774220	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
6	ALL	UCART1	479341.5	3774220	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
7	ALL	UCART1	479380.4	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-03
8	ALL	UCART1	479419.2	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
9	ALL	UCART1	479458.1	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03
10	ALL	UCART1	479496.9	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-03
11	ALL	UCART1	479535.8	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-03
12	ALL	UCART1	479574.6	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03
13	ALL	UCART1	479613.5	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-03
14	ALL	UCART1	479652.3	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-03
15	ALL	UCART1	479691.2	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02
16	ALL	UCART1	479730	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-02
17	ALL	UCART1	479768.9	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
18	ALL	UCART1	479807.7	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02
19	ALL	UCART1	479846.6	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-02
20	ALL	UCART1	479885.4	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-02
21	ALL	UCART1	479924.3	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02
22	ALL	UCART1	479147.3	3774259	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
23	ALL	UCART1	479186.1	3774259	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
24	ALL	UCART1	479225	3774259	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
25	ALL	UCART1	479263.8	3774259	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
26	ALL	UCART1	479302.7	3774259	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
27	ALL	UCART1	479341.5	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03
28	ALL	UCART1	479380.4	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03
29	ALL	UCART1	479419.2	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
30	ALL	UCART1	479458.1	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-03
31	ALL	UCART1	479496.9	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-03
32	ALL	UCART1	479535.8	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-03
33	ALL	UCART1	479574.6	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-03
34	ALL	UCART1	479613.5	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-03
35	ALL	UCART1	479652.3	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-03
36	ALL	UCART1	479691.2	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-03
37	ALL	UCART1	479730	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-03
38	ALL	UCART1	479768.9	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-03
39	ALL	UCART1	479807.7	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-03
40	ALL	UCART1	479846.6	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-03
41	ALL	UCART1	479885.4	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-03
42	ALL	UCART1	479924.3	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-03
43	ALL	UCART1	479147.3	3774298	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
44	ALL	UCART1	479186.1	3774298	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
45	ALL	UCART1	479225	3774298	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
46	ALL	UCART1	479263.8	3774298	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
47	ALL	UCART1	479302.7	3774298	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
48	ALL	UCART1	479341.5	3774298	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
49	ALL	UCART1	479380.4	3774298	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
50	ALL	UCART1	479419.2	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
51	ALL	UCART1	479458.1	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-03
52	ALL	UCART1	479496.9	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-03
53	ALL	UCART1	479535.8	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-03
54	ALL	UCART1	479574.6	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-03
55	ALL	UCART1	479613.5	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-03
56	ALL	UCART1	479652.3	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-03
57	ALL	UCART1	479691.2	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-03
58	ALL	UCART1	479730	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-03
59	ALL	UCART1	479768.9	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03
60	ALL	UCART1	479807.7	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-03
61	ALL	UCART1	479846.6	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-03
62	ALL	UCART1	479885.4	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-03
63	ALL	UCART1	479924.3	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-03
64	ALL	UCART1	479147.3	3774336	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
65	ALL	UCART1	479186.1	3774336	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
66	ALL	UCART1	479225	3774336	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
67	ALL	UCART1	479263.8	3774336	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
68	ALL	UCART1	479302.7	3774336	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
69	ALL	UCART1	479341.5	3774336	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
70	ALL	UCART1	479380.4	3774336	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
71	ALL	UCART1	479419.2	3774336	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
72	ALL	UCART1	479458.1	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-03
73	ALL	UCART1	479496.9	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-03
74	ALL	UCART1	479535.8	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-03
75	ALL	UCART1	479574.6	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.67E-03
76	ALL	UCART1	479613.5	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03
77	ALL	UCART1	479652.3	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-03
78	ALL	UCART1	479691.2	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-03
79	ALL	UCART1	479730	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.31E-03
80	ALL	UCART1	479768.9	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-03
81	ALL	UCART1	479807.7	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E-03
82	ALL	UCART1	479846.6	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-03
83	ALL	UCART1	479885.4	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-03
84	ALL	UCART1	479924.3	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-03
85	ALL	UCART1	479147.3	3774375	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
86	ALL	UCART1	479186.1	3774375	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
87	ALL	UCART1	479225	3774375	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
88	ALL	UCART1	479263.8	3774375	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
89	ALL	UCART1	479302.7	3774375	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
90	ALL	UCART1	479341.5	3774375	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
91	ALL	UCART1	479380.4	3774375	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
92	ALL	UCART1	479419.2	3774375	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
93	ALL	UCART1	479458.1	3774375	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
94	ALL	UCART1	479496.9	3774375	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
95	ALL	UCART1	479535.8	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-03
96	ALL	UCART1	479574.6	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-03
97	ALL	UCART1	479613.5	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-03
98	ALL	UCART1	479652.3	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-03

99	ALL	UCART1	479691.2	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-03
100	ALL	UCART1	479730	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-03
101	ALL	UCART1	479768.9	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-03
102	ALL	UCART1	479807.7	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-03
103	ALL	UCART1	479846.6	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-03
104	ALL	UCART1	479885.4	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-03
105	ALL	UCART1	479924.3	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-03
106	ALL	UCART1	479147.3	3774413	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
107	ALL	UCART1	479186.1	3774413	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
108	ALL	UCART1	479225	3774413	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
109	ALL	UCART1	479263.8	3774413	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
110	ALL	UCART1	479302.7	3774413	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
111	ALL	UCART1	479341.5	3774413	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
112	ALL	UCART1	479380.4	3774413	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
113	ALL	UCART1	479419.2	3774413	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
114	ALL	UCART1	479458.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
115	ALL	UCART1	479496.9	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
116	ALL	UCART1	479535.8	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-03
117	ALL	UCART1	479574.6	3774413	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
118	ALL	UCART1	479613.5	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-03
119	ALL	UCART1	479652.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
120	ALL	UCART1	479691.2	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-03
121	ALL	UCART1	479730	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-03
122	ALL	UCART1	479768.9	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-03
123	ALL	UCART1	479807.7	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-03
124	ALL	UCART1	479846.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-03
125	ALL	UCART1	479885.4	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-03
126	ALL	UCART1	479924.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-03
127	ALL	UCART1	479147.3	3774452	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
128	ALL	UCART1	479186.1	3774452	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
129	ALL	UCART1	479225	3774452	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
130	ALL	UCART1	479263.8	3774452	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
131	ALL	UCART1	479302.7	3774452	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
132	ALL	UCART1	479341.5	3774452	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
133	ALL	UCART1	479380.4	3774452	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
134	ALL	UCART1	479419.2	3774452	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
135	ALL	UCART1	479458.1	3774452	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
136	ALL	UCART1	479496.9	3774452	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
137	ALL	UCART1	479535.8	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
138	ALL	UCART1	479574.6	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
139	ALL	UCART1	479613.5	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03
140	ALL	UCART1	479652.3	3774452	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
141	ALL	UCART1	479691.2	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-03
142	ALL	UCART1	479730	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-03
143	ALL	UCART1	479768.9	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-03
144	ALL	UCART1	479807.7	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03
145	ALL	UCART1	479846.6	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-03
146	ALL	UCART1	479885.4	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-03
147	ALL	UCART1	479924.3	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03
148	ALL	UCART1	479147.3	3774491	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
149	ALL	UCART1	479186.1	3774491	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
150	ALL	UCART1	479225	3774491	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
151	ALL	UCART1	479263.8	3774491	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
152	ALL	UCART1	479302.7	3774491	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
153	ALL	UCART1	479341.5	3774491	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
154	ALL	UCART1	479380.4	3774491	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
155	ALL	UCART1	479419.2	3774491	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
156	ALL	UCART1	479458.1	3774491	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
157	ALL	UCART1	479496.9	3774491	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
158	ALL	UCART1	479535.8	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
159	ALL	UCART1	479574.6	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-03
160	ALL	UCART1	479613.5	3774491	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
161	ALL	UCART1	479652.3	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-03
162	ALL	UCART1	479691.2	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-03
163	ALL	UCART1	479730	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-03
164	ALL	UCART1	479768.9	3774491	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
165	ALL	UCART1	479807.7	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
166	ALL	UCART1	479846.6	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
167	ALL	UCART1	479885.4	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-03
168	ALL	UCART1	479924.3	3774491	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
169	ALL	UCART1	479147.3	3774529	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
170	ALL	UCART1	479186.1	3774529	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
171	ALL	UCART1	479225	3774529	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
172	ALL	UCART1	479263.8	3774529	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
173	ALL	UCART1	479302.7	3774529	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
174	ALL	UCART1	479341.5	3774529	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
175	ALL	UCART1	479380.4	3774529	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
176	ALL	UCART1	479419.2	3774529	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
177	ALL	UCART1	479458.1	3774529	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
178	ALL	UCART1	479496.9	3774529	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
179	ALL	UCART1	479535.8	3774529	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
180	ALL	UCART1	479574.6	3774529	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
181	ALL	UCART1	479613.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
182	ALL	UCART1	479652.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-03
183	ALL	UCART1	479691.2	3774529	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
184	ALL	UCART1	479730	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-03
185	ALL	UCART1	479768.9	3774529	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
186	ALL	UCART1	479807.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-03
187	ALL	UCART1	479846.6	3774529	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
188	ALL	UCART1	479885.4	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03
189	ALL	UCART1	479924.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-03
190	ALL	UCART1	479147.3	3774568	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
191	ALL	UCART1	479186.1	3774568	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
192	ALL	UCART1	479225	3774568	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
193	ALL	UCART1	479263.8	3774568	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
194	ALL	UCART1	479302.7	3774568	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
195	ALL	UCART1	479341.5	3774568	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
196	ALL	UCART1	479380.4	3774568	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
197	ALL	UCART1	479419.2	3774568	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

198	ALL	UCART1	479458.1	3774568	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	UCART1	479496.9	3774568	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
200	ALL	UCART1	479535.8	3774568	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
201	ALL	UCART1	479574.6	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
202	ALL	UCART1	479613.5	3774568	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
203	ALL	UCART1	479652.3	3774568	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
204	ALL	UCART1	479691.2	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-03
205	ALL	UCART1	479730	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
206	ALL	UCART1	479768.9	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-03
207	ALL	UCART1	479807.7	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
208	ALL	UCART1	479846.6	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
209	ALL	UCART1	479885.4	3774568	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
210	ALL	UCART1	479924.3	3774568	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
211	ALL	UCART1	479147.3	3774606	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
212	ALL	UCART1	479186.1	3774606	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
213	ALL	UCART1	479225	3774606	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
214	ALL	UCART1	479263.8	3774606	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
215	ALL	UCART1	479302.7	3774606	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
216	ALL	UCART1	479341.5	3774606	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
217	ALL	UCART1	479380.4	3774606	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
218	ALL	UCART1	479419.2	3774606	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
219	ALL	UCART1	479458.1	3774606	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
220	ALL	UCART1	479496.9	3774606	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
221	ALL	UCART1	479535.8	3774606	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
222	ALL	UCART1	479574.6	3774606	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
223	ALL	UCART1	479613.5	3774606	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
224	ALL	UCART1	479652.3	3774606	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
225	ALL	UCART1	479691.2	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-03
226	ALL	UCART1	479730	3774606	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
227	ALL	UCART1	479768.9	3774606	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
228	ALL	UCART1	479807.7	3774606	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
229	ALL	UCART1	479846.6	3774606	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
230	ALL	UCART1	479885.4	3774606	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
231	ALL	UCART1	479924.3	3774606	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
232	ALL	UCART1	479147.3	3774645	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
233	ALL	UCART1	479186.1	3774645	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
234	ALL	UCART1	479225	3774645	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
235	ALL	UCART1	479263.8	3774645	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
236	ALL	UCART1	479302.7	3774645	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
237	ALL	UCART1	479341.5	3774645	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
238	ALL	UCART1	479380.4	3774645	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
239	ALL	UCART1	479419.2	3774645	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
240	ALL	UCART1	479458.1	3774645	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
241	ALL	UCART1	479496.9	3774645	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
242	ALL	UCART1	479535.8	3774645	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
243	ALL	UCART1	479574.6	3774645	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
244	ALL	UCART1	479613.5	3774645	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
245	ALL	UCART1	479652.3	3774645	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
246	ALL	UCART1	479691.2	3774645	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
247	ALL	UCART1	479730	3774645	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
248	ALL	UCART1	479768.9	3774645	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
249	ALL	UCART1	479807.7	3774645	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
250	ALL	UCART1	479846.6	3774645	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
251	ALL	UCART1	479885.4	3774645	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
252	ALL	UCART1	479924.3	3774645	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
253	ALL	UCART1	479147.3	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04
254	ALL	UCART1	479186.1	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-04
255	ALL	UCART1	479225	3774684	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
256	ALL	UCART1	479263.8	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04
257	ALL	UCART1	479302.7	3774684	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
258	ALL	UCART1	479341.5	3774684	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
259	ALL	UCART1	479380.4	3774684	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
260	ALL	UCART1	479419.2	3774684	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
261	ALL	UCART1	479458.1	3774684	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
262	ALL	UCART1	479496.9	3774684	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
263	ALL	UCART1	479535.8	3774684	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
264	ALL	UCART1	479574.6	3774684	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
265	ALL	UCART1	479613.5	3774684	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
266	ALL	UCART1	479652.3	3774684	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
267	ALL	UCART1	479691.2	3774684	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
268	ALL	UCART1	479730	3774684	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
269	ALL	UCART1	479768.9	3774684	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
270	ALL	UCART1	479807.7	3774684	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
271	ALL	UCART1	479846.6	3774684	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
272	ALL	UCART1	479885.4	3774684	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
273	ALL	UCART1	479924.3	3774684	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
274	ALL	UCART1	479147.3	3774722	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
275	ALL	UCART1	479186.1	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04
276	ALL	UCART1	479225	3774722	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
277	ALL	UCART1	479263.8	3774722	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
278	ALL	UCART1	479302.7	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-04
279	ALL	UCART1	479341.5	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-04
280	ALL	UCART1	479380.4	3774722	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
281	ALL	UCART1	479419.2	3774722	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
282	ALL	UCART1	479458.1	3774722	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
283	ALL	UCART1	479496.9	3774722	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
284	ALL	UCART1	479535.8	3774722	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
285	ALL	UCART1	479574.6	3774722	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
286	ALL	UCART1	479613.5	3774722	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
287	ALL	UCART1	479652.3	3774722	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
288	ALL	UCART1	479691.2	3774722	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
289	ALL	UCART1	479730	3774722	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
290	ALL	UCART1	479768.9	3774722	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
291	ALL	UCART1	479807.7	3774722	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
292	ALL	UCART1	479846.6	3774722	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
293	ALL	UCART1	479885.4	3774722	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
294	ALL	UCART1	479924.3	3774722	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
295	ALL	UCART1	479147.3	3774761	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
296	ALL	UCART1	479186.1	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-04

297	ALL	UCART1	479225	3774761	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
298	ALL	UCART1	479263.8	3774761	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
299	ALL	UCART1	479302.7	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
300	ALL	UCART1	479341.5	3774761	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
301	ALL	UCART1	479380.4	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
302	ALL	UCART1	479419.2	3774761	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
303	ALL	UCART1	479458.1	3774761	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
304	ALL	UCART1	479496.9	3774761	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
305	ALL	UCART1	479535.8	3774761	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
306	ALL	UCART1	479574.6	3774761	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
307	ALL	UCART1	479613.5	3774761	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
308	ALL	UCART1	479652.3	3774761	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
309	ALL	UCART1	479691.2	3774761	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
310	ALL	UCART1	479730	3774761	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
311	ALL	UCART1	479768.9	3774761	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
312	ALL	UCART1	479807.7	3774761	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
313	ALL	UCART1	479846.6	3774761	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
314	ALL	UCART1	479885.4	3774761	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
315	ALL	UCART1	479924.3	3774761	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
316	ALL	UCART1	479147.3	3774800	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
317	ALL	UCART1	479186.1	3774800	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
318	ALL	UCART1	479225	3774800	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
319	ALL	UCART1	479263.8	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-04
320	ALL	UCART1	479302.7	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
321	ALL	UCART1	479341.5	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.51E-04
322	ALL	UCART1	479380.4	3774800	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
323	ALL	UCART1	479419.2	3774800	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
324	ALL	UCART1	479458.1	3774800	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
325	ALL	UCART1	479496.9	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
326	ALL	UCART1	479535.8	3774800	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
327	ALL	UCART1	479574.6	3774800	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
328	ALL	UCART1	479613.5	3774800	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
329	ALL	UCART1	479652.3	3774800	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
330	ALL	UCART1	479691.2	3774800	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
331	ALL	UCART1	479730	3774800	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
332	ALL	UCART1	479768.9	3774800	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
333	ALL	UCART1	479807.7	3774800	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
334	ALL	UCART1	479846.6	3774800	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
335	ALL	UCART1	479885.4	3774800	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
336	ALL	UCART1	479924.3	3774800	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
337	ALL	UCART1	479147.3	3774838	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
338	ALL	UCART1	479186.1	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
339	ALL	UCART1	479225	3774838	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
340	ALL	UCART1	479263.8	3774838	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
341	ALL	UCART1	479302.7	3774838	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
342	ALL	UCART1	479341.5	3774838	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
343	ALL	UCART1	479380.4	3774838	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
344	ALL	UCART1	479419.2	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
345	ALL	UCART1	479458.1	3774838	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
346	ALL	UCART1	479496.9	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04
347	ALL	UCART1	479535.8	3774838	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
348	ALL	UCART1	479574.6	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-04
349	ALL	UCART1	479613.5	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-04
350	ALL	UCART1	479652.3	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-04
351	ALL	UCART1	479691.2	3774838	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
352	ALL	UCART1	479730	3774838	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
353	ALL	UCART1	479768.9	3774838	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
354	ALL	UCART1	479807.7	3774838	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
355	ALL	UCART1	479846.6	3774838	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
356	ALL	UCART1	479885.4	3774838	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
357	ALL	UCART1	479924.3	3774838	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
358	ALL	UCART1	479147.3	3774877	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
359	ALL	UCART1	479186.1	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
360	ALL	UCART1	479225	3774877	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
361	ALL	UCART1	479263.8	3774877	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
362	ALL	UCART1	479302.7	3774877	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
363	ALL	UCART1	479341.5	3774877	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
364	ALL	UCART1	479380.4	3774877	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
365	ALL	UCART1	479419.2	3774877	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
366	ALL	UCART1	479458.1	3774877	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
367	ALL	UCART1	479496.9	3774877	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
368	ALL	UCART1	479535.8	3774877	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
369	ALL	UCART1	479574.6	3774877	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
370	ALL	UCART1	479613.5	3774877	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
371	ALL	UCART1	479652.3	3774877	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
372	ALL	UCART1	479691.2	3774877	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
373	ALL	UCART1	479730	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-04
374	ALL	UCART1	479768.9	3774877	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
375	ALL	UCART1	479807.7	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04
376	ALL	UCART1	479846.6	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-04
377	ALL	UCART1	479885.4	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-04
378	ALL	UCART1	479924.3	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.40E-04
379	ALL	UCART1	479147.3	3774915	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
380	ALL	UCART1	479186.1	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
381	ALL	UCART1	479225	3774915	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
382	ALL	UCART1	479263.8	3774915	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
383	ALL	UCART1	479302.7	3774915	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
384	ALL	UCART1	479341.5	3774915	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
385	ALL	UCART1	479380.4	3774915	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
386	ALL	UCART1	479419.2	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
387	ALL	UCART1	479458.1	3774915	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
388	ALL	UCART1	479496.9	3774915	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
389	ALL	UCART1	479535.8	3774915	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
390	ALL	UCART1	479574.6	3774915	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
391	ALL	UCART1	479613.5	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-04
392	ALL	UCART1	479652.3	3774915	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
393	ALL	UCART1	479691.2	3774915	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
394	ALL	UCART1	479730	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-04
395	ALL	UCART1	479768.9	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-04

396	ALL	UCART1	479807.7	3774915	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
397	ALL	UCART1	479846.6	3774915	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
398	ALL	UCART1	479885.4	3774915	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
399	ALL	UCART1	479924.3	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-04
400	ALL	UCART1	479147.3	3774954	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
401	ALL	UCART1	479186.1	3774954	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
402	ALL	UCART1	479225	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
403	ALL	UCART1	479263.8	3774954	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
404	ALL	UCART1	479302.7	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
405	ALL	UCART1	479341.5	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
406	ALL	UCART1	479380.4	3774954	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
407	ALL	UCART1	479419.2	3774954	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
408	ALL	UCART1	479458.1	3774954	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
409	ALL	UCART1	479496.9	3774954	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
410	ALL	UCART1	479535.8	3774954	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
411	ALL	UCART1	479574.6	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.78E-04
412	ALL	UCART1	479613.5	3774954	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
413	ALL	UCART1	479652.3	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
414	ALL	UCART1	479691.2	3774954	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
415	ALL	UCART1	479730	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
416	ALL	UCART1	479768.9	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04
417	ALL	UCART1	479807.7	3774954	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
418	ALL	UCART1	479846.6	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04
419	ALL	UCART1	479885.4	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
420	ALL	UCART1	479924.3	3774954	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
421	ALL	UCART1	479147.3	3774993	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
422	ALL	UCART1	479186.1	3774993	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
423	ALL	UCART1	479225	3774993	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
424	ALL	UCART1	479263.8	3774993	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
425	ALL	UCART1	479302.7	3774993	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
426	ALL	UCART1	479341.5	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04
427	ALL	UCART1	479380.4	3774993	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
428	ALL	UCART1	479419.2	3774993	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
429	ALL	UCART1	479458.1	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-04
430	ALL	UCART1	479496.9	3774993	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
431	ALL	UCART1	479535.8	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
432	ALL	UCART1	479574.6	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-04
433	ALL	UCART1	479613.5	3774993	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
434	ALL	UCART1	479652.3	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-04
435	ALL	UCART1	479691.2	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-04
436	ALL	UCART1	479730	3774993	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
437	ALL	UCART1	479768.9	3774993	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
438	ALL	UCART1	479807.7	3774993	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
439	ALL	UCART1	479846.6	3774993	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
440	ALL	UCART1	479885.4	3774993	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
441	ALL	UCART1	479924.3	3774993	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
442	ALL	UCART2	479947.2	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-03
443	ALL	UCART2	480027.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
444	ALL	UCART2	480108	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03
445	ALL	UCART2	480188.4	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-03
446	ALL	UCART2	480268.8	3774413	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
447	ALL	UCART2	480349.3	3774413	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
448	ALL	UCART2	480429.7	3774413	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
449	ALL	UCART2	480510.1	3774413	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
450	ALL	UCART2	480590.5	3774413	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
451	ALL	UCART2	480670.9	3774413	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
452	ALL	UCART2	480751.4	3774413	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
453	ALL	UCART2	480831.8	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-04
454	ALL	UCART2	480912.2	3774413	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
455	ALL	UCART2	480992.6	3774413	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
456	ALL	UCART2	481073	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
457	ALL	UCART2	481153.5	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
458	ALL	UCART2	481233.9	3774413	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
459	ALL	UCART2	481314.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
460	ALL	UCART2	481394.7	3774413	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
461	ALL	UCART2	481475.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
462	ALL	UCART2	481555.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
463	ALL	UCART2	479947.2	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03
464	ALL	UCART2	480027.6	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-03
465	ALL	UCART2	480108	3774442	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
466	ALL	UCART2	480188.4	3774442	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
467	ALL	UCART2	480268.8	3774442	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
468	ALL	UCART2	480349.3	3774442	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
469	ALL	UCART2	480429.7	3774442	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
470	ALL	UCART2	480510.1	3774442	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
471	ALL	UCART2	480590.5	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-04
472	ALL	UCART2	480670.9	3774442	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
473	ALL	UCART2	480751.4	3774442	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
474	ALL	UCART2	480831.8	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
475	ALL	UCART2	480912.2	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
476	ALL	UCART2	480992.6	3774442	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
477	ALL	UCART2	481073	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
478	ALL	UCART2	481153.5	3774442	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
479	ALL	UCART2	481233.9	3774442	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
480	ALL	UCART2	481314.3	3774442	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
481	ALL	UCART2	481394.7	3774442	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
482	ALL	UCART2	481475.1	3774442	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
483	ALL	UCART2	481555.6	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
484	ALL	UCART2	479947.2	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-03
485	ALL	UCART2	480027.6	3774471	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
486	ALL	UCART2	480108	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
487	ALL	UCART2	480188.4	3774471	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
488	ALL	UCART2	480268.8	3774471	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
489	ALL	UCART2	480349.3	3774471	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
490	ALL	UCART2	480429.7	3774471	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
491	ALL	UCART2	480510.1	3774471	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
492	ALL	UCART2	480590.5	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-04
493	ALL	UCART2	480670.9	3774471	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
494	ALL	UCART2	480751.4	3774471	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

495	ALL	UCART2	480831.8	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-04
496	ALL	UCART2	480912.2	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04
497	ALL	UCART2	480992.6	3774471	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
498	ALL	UCART2	481073	3774471	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
499	ALL	UCART2	481153.5	3774471	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
500	ALL	UCART2	481233.9	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
501	ALL	UCART2	481314.3	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
502	ALL	UCART2	481394.7	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
503	ALL	UCART2	481475.1	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
504	ALL	UCART2	481555.6	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
505	ALL	UCART2	479947.2	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-03
506	ALL	UCART2	480027.6	3774500	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
507	ALL	UCART2	480108	3774500	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
508	ALL	UCART2	480188.4	3774500	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
509	ALL	UCART2	480268.8	3774500	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
510	ALL	UCART2	480349.3	3774500	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
511	ALL	UCART2	480429.7	3774500	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
512	ALL	UCART2	480510.1	3774500	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
513	ALL	UCART2	480590.5	3774500	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
514	ALL	UCART2	480670.9	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
515	ALL	UCART2	480751.4	3774500	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
516	ALL	UCART2	480831.8	3774500	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
517	ALL	UCART2	480912.2	3774500	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
518	ALL	UCART2	480992.6	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
519	ALL	UCART2	481073	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
520	ALL	UCART2	481153.5	3774500	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
521	ALL	UCART2	481233.9	3774500	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
522	ALL	UCART2	481314.3	3774500	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
523	ALL	UCART2	481394.7	3774500	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
524	ALL	UCART2	481475.1	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
525	ALL	UCART2	481555.6	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
526	ALL	UCART2	479947.2	3774529	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
527	ALL	UCART2	480027.6	3774529	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
528	ALL	UCART2	480108	3774529	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
529	ALL	UCART2	480188.4	3774529	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
530	ALL	UCART2	480268.8	3774529	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
531	ALL	UCART2	480349.3	3774529	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
532	ALL	UCART2	480429.7	3774529	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
533	ALL	UCART2	480510.1	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-04
534	ALL	UCART2	480590.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
535	ALL	UCART2	480670.9	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
536	ALL	UCART2	480751.4	3774529	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
537	ALL	UCART2	480831.8	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-04
538	ALL	UCART2	480912.2	3774529	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
539	ALL	UCART2	480992.6	3774529	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
540	ALL	UCART2	481073	3774529	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
541	ALL	UCART2	481153.5	3774529	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
542	ALL	UCART2	481233.9	3774529	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
543	ALL	UCART2	481314.3	3774529	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
544	ALL	UCART2	481394.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
545	ALL	UCART2	481475.1	3774529	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
546	ALL	UCART2	481555.6	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
547	ALL	UCART2	479947.2	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
548	ALL	UCART2	480027.6	3774558	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
549	ALL	UCART2	480108	3774558	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
550	ALL	UCART2	480188.4	3774558	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
551	ALL	UCART2	480268.8	3774558	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
552	ALL	UCART2	480349.3	3774558	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
553	ALL	UCART2	480429.7	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-04
554	ALL	UCART2	480510.1	3774558	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
555	ALL	UCART2	480590.5	3774558	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
556	ALL	UCART2	480670.9	3774558	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
557	ALL	UCART2	480751.4	3774558	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
558	ALL	UCART2	480831.8	3774558	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
559	ALL	UCART2	480912.2	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
560	ALL	UCART2	480992.6	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
561	ALL	UCART2	481073	3774558	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
562	ALL	UCART2	481153.5	3774558	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
563	ALL	UCART2	481233.9	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
564	ALL	UCART2	481314.3	3774558	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
565	ALL	UCART2	481394.7	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
566	ALL	UCART2	481475.1	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
567	ALL	UCART2	481555.6	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
568	ALL	UCART2	479947.2	3774588	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
569	ALL	UCART2	480027.6	3774588	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
570	ALL	UCART2	480108	3774588	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
571	ALL	UCART2	480188.4	3774588	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
572	ALL	UCART2	480268.8	3774588	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
573	ALL	UCART2	480349.3	3774588	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
574	ALL	UCART2	480429.7	3774588	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
575	ALL	UCART2	480510.1	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-04
576	ALL	UCART2	480590.5	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-04
577	ALL	UCART2	480670.9	3774588	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
578	ALL	UCART2	480751.4	3774588	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
579	ALL	UCART2	480831.8	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04
580	ALL	UCART2	480912.2	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
581	ALL	UCART2	480992.6	3774588	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
582	ALL	UCART2	481073	3774588	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
583	ALL	UCART2	481153.5	3774588	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
584	ALL	UCART2	481233.9	3774588	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
585	ALL	UCART2	481314.3	3774588	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
586	ALL	UCART2	481394.7	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
587	ALL	UCART2	481475.1	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
588	ALL	UCART2	481555.6	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
589	ALL	UCART2	479947.2	3774617	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
590	ALL	UCART2	480027.6	3774617	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
591	ALL	UCART2	480108	3774617	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
592	ALL	UCART2	480188.4	3774617	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
593	ALL	UCART2	480268.8	3774617	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

594	ALL	UCART2	480349.3	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-04
595	ALL	UCART2	480429.7	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-04
596	ALL	UCART2	480510.1	3774617	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
597	ALL	UCART2	480590.5	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
598	ALL	UCART2	480670.9	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-04
599	ALL	UCART2	480751.4	3774617	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
600	ALL	UCART2	480831.8	3774617	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
601	ALL	UCART2	480912.2	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
602	ALL	UCART2	480992.6	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
603	ALL	UCART2	481073	3774617	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
604	ALL	UCART2	481153.5	3774617	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
605	ALL	UCART2	481233.9	3774617	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
606	ALL	UCART2	481314.3	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
607	ALL	UCART2	481394.7	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
608	ALL	UCART2	481475.1	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
609	ALL	UCART2	481555.6	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
610	ALL	UCART2	479947.2	3774646	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
611	ALL	UCART2	480027.6	3774646	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
612	ALL	UCART2	480108	3774646	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
613	ALL	UCART2	480188.4	3774646	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
614	ALL	UCART2	480268.8	3774646	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
615	ALL	UCART2	480349.3	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-04
616	ALL	UCART2	480429.7	3774646	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
617	ALL	UCART2	480510.1	3774646	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
618	ALL	UCART2	480590.5	3774646	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
619	ALL	UCART2	480670.9	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
620	ALL	UCART2	480751.4	3774646	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
621	ALL	UCART2	480831.8	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04
622	ALL	UCART2	480912.2	3774646	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
623	ALL	UCART2	480992.6	3774646	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
624	ALL	UCART2	481073	3774646	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
625	ALL	UCART2	481153.5	3774646	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
626	ALL	UCART2	481233.9	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
627	ALL	UCART2	481314.3	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
628	ALL	UCART2	481394.7	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
629	ALL	UCART2	481475.1	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
630	ALL	UCART2	481555.6	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
631	ALL	UCART2	479947.2	3774675	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
632	ALL	UCART2	480027.6	3774675	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
633	ALL	UCART2	480108	3774675	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
634	ALL	UCART2	480188.4	3774675	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
635	ALL	UCART2	480268.8	3774675	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
636	ALL	UCART2	480349.3	3774675	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
637	ALL	UCART2	480429.7	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
638	ALL	UCART2	480510.1	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04
639	ALL	UCART2	480590.5	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-04
640	ALL	UCART2	480670.9	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-04
641	ALL	UCART2	480751.4	3774675	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
642	ALL	UCART2	480831.8	3774675	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
643	ALL	UCART2	480912.2	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
644	ALL	UCART2	480992.6	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
645	ALL	UCART2	481073	3774675	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
646	ALL	UCART2	481153.5	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
647	ALL	UCART2	481233.9	3774675	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
648	ALL	UCART2	481314.3	3774675	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
649	ALL	UCART2	481394.7	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
650	ALL	UCART2	481475.1	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
651	ALL	UCART2	481555.6	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
652	ALL	UCART2	479947.2	3774704	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
653	ALL	UCART2	480027.6	3774704	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
654	ALL	UCART2	480108	3774704	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
655	ALL	UCART2	480188.4	3774704	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
656	ALL	UCART2	480268.8	3774704	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
657	ALL	UCART2	480349.3	3774704	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
658	ALL	UCART2	480429.7	3774704	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
659	ALL	UCART2	480510.1	3774704	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
660	ALL	UCART2	480590.5	3774704	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
661	ALL	UCART2	480670.9	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-04
662	ALL	UCART2	480751.4	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
663	ALL	UCART2	480831.8	3774704	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
664	ALL	UCART2	480912.2	3774704	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
665	ALL	UCART2	480992.6	3774704	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
666	ALL	UCART2	481073	3774704	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
667	ALL	UCART2	481153.5	3774704	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
668	ALL	UCART2	481233.9	3774704	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
669	ALL	UCART2	481314.3	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
670	ALL	UCART2	481394.7	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
671	ALL	UCART2	481475.1	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
672	ALL	UCART2	481555.6	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
673	ALL	UCART2	479947.2	3774733	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
674	ALL	UCART2	480027.6	3774733	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
675	ALL	UCART2	480108	3774733	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
676	ALL	UCART2	480188.4	3774733	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
677	ALL	UCART2	480268.8	3774733	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
678	ALL	UCART2	480349.3	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04
679	ALL	UCART2	480429.7	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-04
680	ALL	UCART2	480510.1	3774733	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
681	ALL	UCART2	480590.5	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04
682	ALL	UCART2	480670.9	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04
683	ALL	UCART2	480751.4	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-04
684	ALL	UCART2	480831.8	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
685	ALL	UCART2	480912.2	3774733	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
686	ALL	UCART2	480992.6	3774733	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
687	ALL	UCART2	481073	3774733	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
688	ALL	UCART2	481153.5	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
689	ALL	UCART2	481233.9	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
690	ALL	UCART2	481314.3	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
691	ALL	UCART2	481394.7	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
692	ALL	UCART2	481475.1	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04

693	ALL	UCART2	481555.6	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
694	ALL	UCART2	479947.2	3774762	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
695	ALL	UCART2	480027.6	3774762	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
696	ALL	UCART2	480108	3774762	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
697	ALL	UCART2	480188.4	3774762	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
698	ALL	UCART2	480268.8	3774762	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
699	ALL	UCART2	480349.3	3774762	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
700	ALL	UCART2	480429.7	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-04
701	ALL	UCART2	480510.1	3774762	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
702	ALL	UCART2	480590.5	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
703	ALL	UCART2	480670.9	3774762	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
704	ALL	UCART2	480751.4	3774762	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
705	ALL	UCART2	480831.8	3774762	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
706	ALL	UCART2	480912.2	3774762	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
707	ALL	UCART2	480992.6	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
708	ALL	UCART2	481073	3774762	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
709	ALL	UCART2	481153.5	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
710	ALL	UCART2	481233.9	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
711	ALL	UCART2	481314.3	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
712	ALL	UCART2	481394.7	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
713	ALL	UCART2	481475.1	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
714	ALL	UCART2	481555.6	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
715	ALL	UCART2	479947.2	3774792	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
716	ALL	UCART2	480027.6	3774792	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
717	ALL	UCART2	480108	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-04
718	ALL	UCART2	480188.4	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-04
719	ALL	UCART2	480268.8	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-04
720	ALL	UCART2	480349.3	3774792	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
721	ALL	UCART2	480429.7	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-04
722	ALL	UCART2	480510.1	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
723	ALL	UCART2	480590.5	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04
724	ALL	UCART2	480670.9	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-04
725	ALL	UCART2	480751.4	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
726	ALL	UCART2	480831.8	3774792	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
727	ALL	UCART2	480912.2	3774792	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
728	ALL	UCART2	480992.6	3774792	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
729	ALL	UCART2	481073	3774792	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
730	ALL	UCART2	481153.5	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
731	ALL	UCART2	481233.9	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
732	ALL	UCART2	481314.3	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
733	ALL	UCART2	481394.7	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
734	ALL	UCART2	481475.1	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
735	ALL	UCART2	481555.6	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
736	ALL	UCART2	479947.2	3774821	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
737	ALL	UCART2	480027.6	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04
738	ALL	UCART2	480108	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-04
739	ALL	UCART2	480188.4	3774821	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
740	ALL	UCART2	480268.8	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-04
741	ALL	UCART2	480349.3	3774821	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
742	ALL	UCART2	480429.7	3774821	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
743	ALL	UCART2	480510.1	3774821	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
744	ALL	UCART2	480590.5	3774821	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
745	ALL	UCART2	480670.9	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
746	ALL	UCART2	480751.4	3774821	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
747	ALL	UCART2	480831.8	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
748	ALL	UCART2	480912.2	3774821	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
749	ALL	UCART2	480992.6	3774821	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
750	ALL	UCART2	481073	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
751	ALL	UCART2	481153.5	3774821	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
752	ALL	UCART2	481233.9	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
753	ALL	UCART2	481314.3	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
754	ALL	UCART2	481394.7	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
755	ALL	UCART2	481475.1	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
756	ALL	UCART2	481555.6	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
757	ALL	UCART2	479947.2	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-04
758	ALL	UCART2	480027.6	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-04
759	ALL	UCART2	480108	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-04
760	ALL	UCART2	480188.4	3774850	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
761	ALL	UCART2	480268.8	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-04
762	ALL	UCART2	480349.3	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-04
763	ALL	UCART2	480429.7	3774850	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
764	ALL	UCART2	480510.1	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-04
765	ALL	UCART2	480590.5	3774850	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
766	ALL	UCART2	480670.9	3774850	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
767	ALL	UCART2	480751.4	3774850	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
768	ALL	UCART2	480831.8	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
769	ALL	UCART2	480912.2	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
770	ALL	UCART2	480992.6	3774850	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
771	ALL	UCART2	481073	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
772	ALL	UCART2	481153.5	3774850	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
773	ALL	UCART2	481233.9	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
774	ALL	UCART2	481314.3	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
775	ALL	UCART2	481394.7	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
776	ALL	UCART2	481475.1	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
777	ALL	UCART2	481555.6	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
778	ALL	UCART2	479947.2	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04
779	ALL	UCART2	480027.6	3774879	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
780	ALL	UCART2	480108	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-04
781	ALL	UCART2	480188.4	3774879	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
782	ALL	UCART2	480268.8	3774879	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
783	ALL	UCART2	480349.3	3774879	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
784	ALL	UCART2	480429.7	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
785	ALL	UCART2	480510.1	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04
786	ALL	UCART2	480590.5	3774879	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
787	ALL	UCART2	480670.9	3774879	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
788	ALL	UCART2	480751.4	3774879	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
789	ALL	UCART2	480831.8	3774879	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
790	ALL	UCART2	480912.2	3774879	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
791	ALL	UCART2	480992.6	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04

792	ALL	UCART2	481073	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
793	ALL	UCART2	481153.5	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
794	ALL	UCART2	481233.9	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
795	ALL	UCART2	481314.3	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
796	ALL	UCART2	481394.7	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
797	ALL	UCART2	481475.1	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
798	ALL	UCART2	481555.6	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
799	ALL	UCART2	479947.2	3774908	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
800	ALL	UCART2	480027.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-04
801	ALL	UCART2	480108	3774908	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
802	ALL	UCART2	480188.4	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-04
803	ALL	UCART2	480268.8	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
804	ALL	UCART2	480349.3	3774908	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
805	ALL	UCART2	480429.7	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04
806	ALL	UCART2	480510.1	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-04
807	ALL	UCART2	480590.5	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-04
808	ALL	UCART2	480670.9	3774908	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
809	ALL	UCART2	480751.4	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-04
810	ALL	UCART2	480831.8	3774908	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
811	ALL	UCART2	480912.2	3774908	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
812	ALL	UCART2	480992.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
813	ALL	UCART2	481073	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
814	ALL	UCART2	481153.5	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
815	ALL	UCART2	481233.9	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
816	ALL	UCART2	481314.3	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
817	ALL	UCART2	481394.7	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
818	ALL	UCART2	481475.1	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
819	ALL	UCART2	481555.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
820	ALL	UCART2	479947.2	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-04
821	ALL	UCART2	480027.6	3774937	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
822	ALL	UCART2	480108	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
823	ALL	UCART2	480188.4	3774937	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
824	ALL	UCART2	480268.8	3774937	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
825	ALL	UCART2	480349.3	3774937	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
826	ALL	UCART2	480429.7	3774937	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
827	ALL	UCART2	480510.1	3774937	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
828	ALL	UCART2	480590.5	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04
829	ALL	UCART2	480670.9	3774937	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
830	ALL	UCART2	480751.4	3774937	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
831	ALL	UCART2	480831.8	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-04
832	ALL	UCART2	480912.2	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
833	ALL	UCART2	480992.6	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
834	ALL	UCART2	481073	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
835	ALL	UCART2	481153.5	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
836	ALL	UCART2	481233.9	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
837	ALL	UCART2	481314.3	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
838	ALL	UCART2	481394.7	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
839	ALL	UCART2	481475.1	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
840	ALL	UCART2	481555.6	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
841	ALL	UCART2	479947.2	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-04
842	ALL	UCART2	480027.6	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04
843	ALL	UCART2	480108	3774966	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
844	ALL	UCART2	480188.4	3774966	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
845	ALL	UCART2	480268.8	3774966	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
846	ALL	UCART2	480349.3	3774966	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
847	ALL	UCART2	480429.7	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-04
848	ALL	UCART2	480510.1	3774966	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
849	ALL	UCART2	480590.5	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
850	ALL	UCART2	480670.9	3774966	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
851	ALL	UCART2	480751.4	3774966	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
852	ALL	UCART2	480831.8	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
853	ALL	UCART2	480912.2	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
854	ALL	UCART2	480992.6	3774966	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
855	ALL	UCART2	481073	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-04
856	ALL	UCART2	481153.5	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
857	ALL	UCART2	481233.9	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
858	ALL	UCART2	481314.3	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
859	ALL	UCART2	481394.7	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
860	ALL	UCART2	481475.1	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
861	ALL	UCART2	481555.6	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
862	ALL	UCART2	479947.2	3774996	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
863	ALL	UCART2	480027.6	3774996	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
864	ALL	UCART2	480108	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
865	ALL	UCART2	480188.4	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
866	ALL	UCART2	480268.8	3774996	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
867	ALL	UCART2	480349.3	3774996	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
868	ALL	UCART2	480429.7	3774996	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
869	ALL	UCART2	480510.1	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
870	ALL	UCART2	480590.5	3774996	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
871	ALL	UCART2	480670.9	3774996	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
872	ALL	UCART2	480751.4	3774996	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
873	ALL	UCART2	480831.8	3774996	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
874	ALL	UCART2	480912.2	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
875	ALL	UCART2	480992.6	3774996	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
876	ALL	UCART2	481073	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
877	ALL	UCART2	481153.5	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
878	ALL	UCART2	481233.9	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
879	ALL	UCART2	481314.3	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
880	ALL	UCART2	481394.7	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
881	ALL	UCART2	481475.1	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
882	ALL	UCART2	481555.6	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
883	ALL		479863.1	3774072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01
884	ALL		479886.6	3774070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-02
885	ALL		479901.5	3774140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-02
886	ALL		479777.1	3774147	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-02
887	ALL		479777.5	3774162	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02

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** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/5/2022
** File: F:\Lakes\3rd & Central\3rd and Central\3rd and Central.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\3rd and Central\3r
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210 San_Bernardino_County
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "3rd and Central.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Truck traffic to 210
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 18
** 479760.458, 3774070.550, 353.39, 3.40, 4.00
** 479760.708, 3774001.911, 353.47, 3.40, 4.00
** 479343.052, 3774015.651, 350.64, 3.40, 4.00
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** 479146.360, 3774023.018, 349.10, 3.40, 4.00
** 479144.875, 3774060.784, 349.05, 3.40, 4.00
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   LOCATION L0000005     VOLUME   479760.599 3774031.896 353.34
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   LOCATION L0000008     VOLUME   479760.693 3774006.126 353.43
   LOCATION L0000009     VOLUME   479756.335 3774002.055 353.42
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   LOCATION L0000030     VOLUME   479576.042 3774007.986 352.20
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   LOCATION L0000033     VOLUME   479550.286 3774008.834 352.03
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LOCATION	L0000082	VOLUME	479145.703	3774039.739	348.93
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LOCATION	L0000283	VOLUME	480708.535	3774133.014	363.49
LOCATION	L0000284	VOLUME	480717.096	3774132.310	363.55

LOCATION	L0000285	VOLUME	480725.657	3774131.606	363.60
LOCATION	L0000286	VOLUME	480734.218	3774130.902	363.64
LOCATION	L0000287	VOLUME	480742.779	3774130.199	363.70
LOCATION	L0000288	VOLUME	480751.342	3774129.515	363.76
LOCATION	L0000289	VOLUME	480759.905	3774128.830	363.85
LOCATION	L0000290	VOLUME	480768.467	3774128.146	363.97
LOCATION	L0000291	VOLUME	480777.030	3774127.462	364.09
LOCATION	L0000292	VOLUME	480785.593	3774126.778	364.22
LOCATION	L0000293	VOLUME	480794.155	3774126.093	364.37
LOCATION	L0000294	VOLUME	480802.718	3774125.409	364.52
LOCATION	L0000295	VOLUME	480811.281	3774124.725	364.67
LOCATION	L0000296	VOLUME	480819.843	3774124.041	364.78
LOCATION	L0000297	VOLUME	480828.406	3774123.356	364.87
LOCATION	L0000298	VOLUME	480836.969	3774122.672	364.94
LOCATION	L0000299	VOLUME	480845.532	3774121.988	364.99
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LOCATION	L0000301	VOLUME	480862.657	3774120.619	365.10
LOCATION	L0000302	VOLUME	480871.220	3774119.935	365.17
LOCATION	L0000303	VOLUME	480879.782	3774119.251	365.23
LOCATION	L0000304	VOLUME	480888.345	3774118.566	365.31
LOCATION	L0000305	VOLUME	480896.908	3774117.882	365.38
LOCATION	L0000306	VOLUME	480905.470	3774117.198	365.45
LOCATION	L0000307	VOLUME	480914.033	3774116.513	365.53
LOCATION	L0000308	VOLUME	480922.596	3774115.829	365.61
LOCATION	L0000309	VOLUME	480931.159	3774115.145	365.72
LOCATION	L0000310	VOLUME	480939.721	3774114.461	365.84
LOCATION	L0000311	VOLUME	480948.284	3774113.776	365.95
LOCATION	L0000312	VOLUME	480956.847	3774113.092	366.08
LOCATION	L0000313	VOLUME	480965.409	3774112.408	366.23
LOCATION	L0000314	VOLUME	480973.972	3774111.724	366.39
LOCATION	L0000315	VOLUME	480982.535	3774111.039	366.55
LOCATION	L0000316	VOLUME	480991.098	3774110.355	366.71
LOCATION	L0000317	VOLUME	480999.660	3774109.671	366.88
LOCATION	L0000318	VOLUME	481008.223	3774108.986	367.06
LOCATION	L0000319	VOLUME	481016.786	3774108.302	367.24
LOCATION	L0000320	VOLUME	481025.348	3774107.618	367.42
LOCATION	L0000321	VOLUME	481033.911	3774106.934	367.60
LOCATION	L0000322	VOLUME	481042.474	3774106.249	367.78
LOCATION	L0000323	VOLUME	481051.036	3774105.565	367.97
LOCATION	L0000324	VOLUME	481059.599	3774104.881	368.15
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LOCATION	L0000326	VOLUME	481076.725	3774103.512	368.54
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LOCATION	L0000328	VOLUME	481093.850	3774102.144	368.89
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LOCATION	L0000330	VOLUME	481110.975	3774100.775	369.27
LOCATION	L0000331	VOLUME	481119.540	3774100.128	369.46
LOCATION	L0000332	VOLUME	481128.123	3774099.762	369.66
LOCATION	L0000333	VOLUME	481136.705	3774099.397	369.85
LOCATION	L0000334	VOLUME	481145.287	3774099.032	370.04

LOCATION	L0000335	VOLUME	481153.869	3774098.667	370.21
LOCATION	L0000336	VOLUME	481162.452	3774098.781	370.39
LOCATION	L0000337	VOLUME	481171.034	3774099.139	370.58
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LOCATION	L0000343	VOLUME	481222.436	3774102.784	371.52
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LOCATION	L0000349	VOLUME	481273.800	3774107.045	368.67
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LOCATION	L0000355	VOLUME	481325.163	3774111.306	365.89
LOCATION	L0000356	VOLUME	481333.724	3774112.017	365.91
LOCATION	L0000357	VOLUME	481342.284	3774112.727	366.00
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LOCATION	L0000359	VOLUME	481359.406	3774114.147	366.05
LOCATION	L0000360	VOLUME	481367.966	3774114.857	366.21
LOCATION	L0000361	VOLUME	481376.527	3774115.568	366.78
LOCATION	L0000362	VOLUME	481385.087	3774116.278	368.32
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LOCATION	L0000370	VOLUME	481453.572	3774121.960	372.21
LOCATION	L0000371	VOLUME	481462.134	3774122.651	372.25
LOCATION	L0000372	VOLUME	481470.702	3774123.268	372.30
LOCATION	L0000373	VOLUME	481479.270	3774123.886	372.35
LOCATION	L0000374	VOLUME	481487.837	3774124.503	372.38
LOCATION	L0000375	VOLUME	481496.405	3774125.120	372.41
LOCATION	L0000376	VOLUME	481504.973	3774125.738	372.44
LOCATION	L0000377	VOLUME	481513.541	3774126.355	372.48
LOCATION	L0000378	VOLUME	481522.109	3774126.972	372.52
LOCATION	L0000379	VOLUME	481530.676	3774127.590	372.56
LOCATION	L0000380	VOLUME	481539.244	3774128.207	372.59
LOCATION	L0000381	VOLUME	481547.812	3774128.824	372.63
LOCATION	L0000382	VOLUME	481556.380	3774129.442	372.66
LOCATION	L0000383	VOLUME	481564.948	3774130.059	372.69
LOCATION	L0000384	VOLUME	481573.515	3774130.676	372.73

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   LOCATION L0000385     VOLUME   481582.083 3774131.294 372.80
   LOCATION L0000386     VOLUME   481590.651 3774131.911 372.87
   LOCATION L0000387     VOLUME   481599.219 3774132.528 372.93
   LOCATION L0000388     VOLUME   481607.787 3774133.146 373.03
   LOCATION L0000389     VOLUME   481616.354 3774133.763 373.23
   LOCATION L0000390     VOLUME   481624.922 3774134.380 373.41
   LOCATION L0000391     VOLUME   481633.490 3774134.998 373.51
   LOCATION L0000392     VOLUME   481642.058 3774135.615 373.62
** End of LINE VOLUME Source ID = SLINE1
   LOCATION STCK1        POINT      479787.690  3774094.510      353.790
** DESCRSRC Truck Idling
   LOCATION STCK2        POINT      479787.690  3774089.938      353.760
** DESCRSRC Truck Idling
   LOCATION STCK3        POINT      479787.690  3774085.366      353.710
** DESCRSRC Truck Idling
   LOCATION STCK4        POINT      479787.690  3774077.313      353.650
** DESCRSRC Truck Idling
   LOCATION STCK5        POINT      479787.690  3774072.741      353.620
** DESCRSRC Truck Idling
   LOCATION STCK6        POINT      479787.690  3774068.169      353.600
** DESCRSRC Truck Idling
   LOCATION STCK7        POINT      479787.690  3774063.597      353.580
** DESCRSRC Truck Idling
   LOCATION STCK8        POINT      479787.690  3774059.025      353.560
** DESCRSRC Truck Idling
   LOCATION STCK9        POINT      479787.690  3774054.453      353.560
** DESCRSRC Truck Idling
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Forklift
** PREFIX
** Length of Side = 8.60
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.80
** SZINIT = 3.16
** Nodes = 8
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** 479774.908, 3774096.048, 353.68, 3.40, 4.00
** 479744.029, 3774096.830, 353.70, 3.40, 4.00
** 479744.029, 3774086.276, 353.58, 3.40, 4.00
** 479763.573, 3774086.667, 353.50, 3.40, 4.00
** 479763.573, 3774073.378, 353.40, 3.40, 4.00
** 479745.202, 3774073.768, 353.47, 3.40, 4.00
** 479745.202, 3774058.915, 353.39, 3.40, 4.00
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   LOCATION L0000394     VOLUME   479775.439 3774068.686 353.47
   LOCATION L0000395     VOLUME   479775.272 3774077.284 353.52
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   LOCATION L0000396     VOLUME   479775.105 3774085.883 353.61
   LOCATION L0000397     VOLUME   479774.939 3774094.481 353.72
   LOCATION L0000398     VOLUME   479767.877 3774096.226 353.70
   LOCATION L0000399     VOLUME   479759.280 3774096.444 353.70
   LOCATION L0000400     VOLUME   479750.683 3774096.661 353.72
   LOCATION L0000401     VOLUME   479744.029 3774094.885 353.73
   LOCATION L0000402     VOLUME   479744.029 3774086.285 353.67
   LOCATION L0000403     VOLUME   479752.619 3774086.448 353.62
   LOCATION L0000404     VOLUME   479761.217 3774086.620 353.58
   LOCATION L0000405     VOLUME   479763.573 3774080.423 353.49
   LOCATION L0000406     VOLUME   479762.019 3774073.411 353.41
   LOCATION L0000407     VOLUME   479753.421 3774073.594 353.43
   LOCATION L0000408     VOLUME   479745.202 3774073.389 353.51
   LOCATION L0000409     VOLUME   479745.202 3774064.789 353.45
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
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   SRCPARAM STCK4        0.111111111     3.962   533.150  11.83006     0.305
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   SRCPARAM STCK7        0.111111111     3.962   533.150  11.83006     0.305
   SRCPARAM STCK8        0.111111111     3.962   533.150  11.83006     0.305
   SRCPARAM STCK9        0.111111111     3.962   533.150  11.83006     0.305
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   SRCPARAM L0000405     0.0588235294      3.40      4.00      3.16
   SRCPARAM L0000406     0.0588235294      3.40      4.00      3.16
   SRCPARAM L0000407     0.0588235294      3.40      4.00      3.16
   SRCPARAM L0000408     0.0588235294      3.40      4.00      3.16
   SRCPARAM L0000409     0.0588235294      3.40      4.00      3.16
** ---------------------------------------------------------------------

** Building Downwash **
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK1          12.95    12.95    12.95    12.95    12.95    12.95

   BUILDHGT STCK2          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK2          12.95    12.95    12.95    12.95    12.95    12.95
   BUILDHGT STCK2          12.95    12.95    12.95    12.95    12.95    12.95
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BUILDHGT STCK2	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK2	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK2	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK3	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK4	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK5	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK6	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK7	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK8	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95

BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95
BUILDHGT STCK9	12.95	12.95	12.95	12.95	12.95	12.95
BUILDWID STCK1	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK1	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK1	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK1	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK1	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK1	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK2	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK2	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK2	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK2	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK2	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK2	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK3	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK3	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK3	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK3	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK3	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK3	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK4	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK4	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK4	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK4	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK4	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK4	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK5	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK5	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK5	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK5	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK5	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK5	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK6	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK6	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK6	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK6	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK6	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK6	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK7	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK7	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK7	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK7	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK7	92.95	87.15	78.69	87.12	96.29	102.54

BUILDWID STCK7	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK8	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK8	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK8	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK8	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK8	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK8	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK9	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK9	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK9	105.67	105.59	102.31	95.91	86.60	75.30
BUILDWID STCK9	77.90	79.14	87.48	93.16	96.01	95.94
BUILDWID STCK9	92.95	87.15	78.69	87.12	96.29	102.54
BUILDWID STCK9	105.67	105.59	102.31	95.91	86.60	75.30
BUILDLEN STCK1	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK1	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK1	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK1	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK1	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK1	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK2	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK2	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK2	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK2	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK2	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK2	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK3	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK3	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK3	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK3	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK3	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK3	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK4	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK4	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK4	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK4	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK4	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK4	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK5	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK5	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK5	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN STCK5	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN STCK5	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN STCK5	93.16	96.01	95.94	92.95	87.15	78.69

BUILDLEN	STCK6	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK6	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK6	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK6	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK6	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK6	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK7	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK7	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK7	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK7	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK7	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK7	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK8	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK8	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK8	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK8	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK8	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK8	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK9	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK9	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK9	93.16	96.01	95.94	92.95	87.15	78.69
BUILDLEN	STCK9	87.12	96.29	102.54	105.67	105.59	102.31
BUILDLEN	STCK9	95.91	86.60	75.30	77.90	79.14	87.48
BUILDLEN	STCK9	93.16	96.01	95.94	92.95	87.15	78.69
XBADJ	STCK1	-75.47	-74.30	-70.88	-65.30	-57.74	-48.42
XBADJ	STCK1	-37.63	-25.70	-12.99	-3.26	5.56	4.71
XBADJ	STCK1	3.72	2.62	1.43	0.21	-1.03	-2.23
XBADJ	STCK1	-11.65	-21.99	-31.67	-40.38	-47.86	-53.89
XBADJ	STCK1	-58.28	-60.90	-62.31	-74.64	-84.70	-92.19
XBADJ	STCK1	-96.88	-98.62	-97.37	-93.16	-86.12	-76.46
XBADJ	STCK2	-70.97	-70.01	-66.92	-61.80	-54.80	-46.13
XBADJ	STCK2	-36.07	-24.91	-12.99	-4.06	4.00	2.43
XBADJ	STCK2	0.78	-0.88	-2.52	-4.09	-5.53	-6.80
XBADJ	STCK2	-16.15	-26.29	-35.62	-43.88	-50.80	-56.17
XBADJ	STCK2	-59.84	-61.69	-62.31	-73.85	-83.14	-89.91
XBADJ	STCK2	-93.94	-95.12	-93.41	-88.87	-81.62	-71.89
XBADJ	STCK3	-66.47	-65.71	-62.96	-58.30	-51.86	-43.85
XBADJ	STCK3	-34.51	-24.11	-12.99	-4.85	2.44	0.14
XBADJ	STCK3	-2.15	-4.38	-6.48	-8.38	-10.03	-11.37
XBADJ	STCK3	-20.66	-30.58	-39.58	-47.38	-53.73	-58.46
XBADJ	STCK3	-61.41	-62.49	-62.31	-73.05	-81.58	-87.62
XBADJ	STCK3	-91.00	-91.62	-89.46	-84.57	-77.12	-67.32

XBADJ	STCK4	-58.53	-58.14	-55.98	-52.12	-46.68	-39.82
XBADJ	STCK4	-31.75	-22.71	-12.99	-6.25	-0.32	-3.89
XBADJ	STCK4	-7.33	-10.56	-13.46	-15.96	-17.97	-19.43
XBADJ	STCK4	-28.59	-38.16	-46.56	-53.55	-58.91	-62.49
XBADJ	STCK4	-64.16	-63.89	-62.31	-71.65	-78.82	-83.59
XBADJ	STCK4	-85.82	-85.45	-82.48	-77.00	-69.18	-59.26
XBADJ	STCK5	-54.03	-53.84	-52.02	-48.62	-43.74	-37.53
XBADJ	STCK5	-30.19	-21.92	-12.99	-7.04	-1.88	-6.17
XBADJ	STCK5	-10.27	-14.06	-17.42	-20.25	-22.47	-24.00
XBADJ	STCK5	-33.09	-42.45	-50.52	-57.05	-61.85	-64.77
XBADJ	STCK5	-65.72	-64.68	-62.31	-70.86	-77.26	-81.31
XBADJ	STCK5	-82.89	-81.95	-78.52	-72.70	-64.68	-54.69
XBADJ	STCK6	-49.53	-49.55	-48.06	-45.12	-40.80	-35.25
XBADJ	STCK6	-28.62	-21.13	-12.99	-7.84	-3.45	-8.46
XBADJ	STCK6	-13.21	-17.56	-21.38	-24.55	-26.97	-28.57
XBADJ	STCK6	-37.59	-46.75	-54.48	-60.55	-64.79	-67.06
XBADJ	STCK6	-67.29	-65.47	-62.31	-70.07	-75.69	-79.02
XBADJ	STCK6	-79.95	-78.45	-74.56	-68.41	-60.18	-50.12
XBADJ	STCK7	-45.03	-45.25	-44.11	-41.62	-37.87	-32.96
XBADJ	STCK7	-27.06	-20.33	-12.99	-8.63	-5.01	-10.74
XBADJ	STCK7	-16.15	-21.06	-25.34	-28.84	-31.47	-33.14
XBADJ	STCK7	-42.09	-51.04	-58.44	-64.05	-67.73	-69.34
XBADJ	STCK7	-68.85	-66.27	-62.31	-69.27	-74.13	-76.74
XBADJ	STCK7	-77.01	-74.95	-70.60	-64.11	-55.68	-45.55
XBADJ	STCK8	-40.52	-40.95	-40.14	-38.11	-34.92	-30.67
XBADJ	STCK8	-25.49	-19.54	-12.99	-9.43	-6.58	-13.03
XBADJ	STCK8	-19.09	-24.57	-29.30	-33.14	-35.98	-37.72
XBADJ	STCK8	-46.61	-55.34	-62.40	-67.56	-70.67	-71.63
XBADJ	STCK8	-70.42	-67.06	-62.31	-68.48	-72.56	-74.45
XBADJ	STCK8	-74.07	-71.44	-66.64	-59.81	-51.17	-40.97
XBADJ	STCK9	-36.01	-36.66	-36.18	-34.61	-31.99	-28.39
XBADJ	STCK9	-23.93	-18.75	-12.99	-10.22	-8.14	-15.32
XBADJ	STCK9	-22.03	-28.07	-33.26	-37.44	-40.48	-42.29
XBADJ	STCK9	-51.11	-59.64	-66.36	-71.06	-73.61	-73.92
XBADJ	STCK9	-71.98	-67.86	-62.31	-67.68	-71.00	-72.16
XBADJ	STCK9	-71.13	-67.94	-62.68	-55.52	-46.67	-36.40
YBADJ	STCK1	-35.69	-45.13	-48.45	-50.30	-50.62	-49.40
YBADJ	STCK1	-46.68	-42.55	-37.11	-31.91	-26.15	-19.60
YBADJ	STCK1	-12.46	-4.94	2.73	10.32	17.60	24.66
YBADJ	STCK1	35.69	45.13	48.45	50.30	50.62	49.40
YBADJ	STCK1	46.68	42.55	37.11	31.91	26.15	19.60
YBADJ	STCK1	12.46	4.94	-2.73	-10.32	-17.60	-24.66
YBADJ	STCK2	-34.89	-43.57	-46.17	-47.36	-47.12	-45.44

YBADJ	STCK2	-42.39	-38.04	-32.54	-27.41	-21.86	-15.65
YBADJ	STCK2	-8.96	-2.00	5.02	11.89	18.39	24.66
YBADJ	STCK2	34.89	43.57	46.17	47.36	47.12	45.44
YBADJ	STCK2	42.39	38.04	32.54	27.41	21.86	15.65
YBADJ	STCK2	8.96	2.00	-5.02	-11.89	-18.39	-24.66
YBADJ	STCK3	-34.10	-42.01	-43.88	-44.43	-43.62	-41.49
YBADJ	STCK3	-38.09	-33.54	-27.97	-22.90	-17.56	-11.69
YBADJ	STCK3	-5.46	0.94	7.30	13.45	19.19	24.66
YBADJ	STCK3	34.10	42.01	43.88	44.43	43.62	41.49
YBADJ	STCK3	38.09	33.54	27.97	22.90	17.56	11.69
YBADJ	STCK3	5.46	-0.94	-7.30	-13.45	-19.19	-24.66
YBADJ	STCK4	-32.70	-39.25	-39.85	-39.24	-37.44	-34.51
YBADJ	STCK4	-30.52	-25.61	-19.91	-14.97	-9.99	-4.71
YBADJ	STCK4	0.72	6.12	11.33	16.21	20.59	24.66
YBADJ	STCK4	32.70	39.25	39.85	39.24	37.44	34.51
YBADJ	STCK4	30.52	25.61	19.91	14.97	9.99	4.71
YBADJ	STCK4	-0.72	-6.12	-11.33	-16.21	-20.59	-24.66
YBADJ	STCK5	-31.91	-37.69	-37.57	-36.31	-33.94	-30.55
YBADJ	STCK5	-26.23	-21.11	-15.34	-10.47	-5.70	-0.75
YBADJ	STCK5	4.22	9.06	13.62	17.77	21.38	24.66
YBADJ	STCK5	31.91	37.69	37.57	36.31	33.94	30.55
YBADJ	STCK5	26.23	21.11	15.34	10.47	5.70	0.75
YBADJ	STCK5	-4.22	-9.06	-13.62	-17.77	-21.38	-24.66
YBADJ	STCK6	-31.11	-36.12	-35.28	-33.37	-30.44	-26.59
YBADJ	STCK6	-21.93	-16.61	-10.77	-5.97	-1.40	3.21
YBADJ	STCK6	7.72	11.99	15.90	19.33	22.17	24.66
YBADJ	STCK6	31.11	36.12	35.28	33.37	30.44	26.59
YBADJ	STCK6	21.93	16.61	10.77	5.97	1.40	-3.21
YBADJ	STCK6	-7.72	-11.99	-15.90	-19.33	-22.17	-24.66
YBADJ	STCK7	-30.32	-34.56	-33.00	-30.43	-26.94	-22.63
YBADJ	STCK7	-17.64	-12.11	-6.20	-1.47	2.89	7.16
YBADJ	STCK7	11.22	14.93	18.19	20.90	22.97	24.66
YBADJ	STCK7	30.32	34.56	33.00	30.43	26.94	22.63
YBADJ	STCK7	17.64	12.11	6.20	1.47	-2.89	-7.16
YBADJ	STCK7	-11.22	-14.93	-18.19	-20.90	-22.97	-24.66
YBADJ	STCK8	-29.53	-32.99	-30.71	-27.49	-23.43	-18.67
YBADJ	STCK8	-13.33	-7.59	-1.62	3.04	7.20	11.13
YBADJ	STCK8	14.73	17.87	20.48	22.46	23.76	24.66
YBADJ	STCK8	29.53	32.99	30.71	27.49	23.43	18.67
YBADJ	STCK8	13.33	7.59	1.62	-3.04	-7.20	-11.13
YBADJ	STCK8	-14.73	-17.87	-20.48	-22.46	-23.76	-24.66
YBADJ	STCK9	-28.73	-31.43	-28.42	-24.55	-19.93	-14.71
YBADJ	STCK9	-9.04	-3.09	2.95	7.55	11.49	15.09

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YBADJ    STCK9          18.23    20.81    22.76    24.02    24.56    24.66
YBADJ    STCK9          28.73    31.43    28.42    24.55    19.93    14.71
YBADJ    STCK9           9.04     3.09    -2.95    -7.55   -11.49   -15.09
YBADJ    STCK9         -18.23   -20.81   -22.76   -24.02   -24.56   -24.66

URBANSRC ALL
SRCGROUP Trucks   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
SRCGROUP Trucks   L0000007 L0000008 L0000009 L0000010 L0000011 L0000012
SRCGROUP Trucks   L0000013 L0000014 L0000015 L0000016 L0000017 L0000018
SRCGROUP Trucks   L0000019 L0000020 L0000021 L0000022 L0000023 L0000024
SRCGROUP Trucks   L0000025 L0000026 L0000027 L0000028 L0000029 L0000030
SRCGROUP Trucks   L0000031 L0000032 L0000033 L0000034 L0000035 L0000036
SRCGROUP Trucks   L0000037 L0000038 L0000039 L0000040 L0000041 L0000042
SRCGROUP Trucks   L0000043 L0000044 L0000045 L0000046 L0000047 L0000048
SRCGROUP Trucks   L0000049 L0000050 L0000051 L0000052 L0000053 L0000054
SRCGROUP Trucks   L0000055 L0000056 L0000057 L0000058 L0000059 L0000060
SRCGROUP Trucks   L0000061 L0000062 L0000063 L0000064 L0000065 L0000066
SRCGROUP Trucks   L0000067 L0000068 L0000069 L0000070 L0000071 L0000072
SRCGROUP Trucks   L0000073 L0000074 L0000075 L0000076 L0000077 L0000078
SRCGROUP Trucks   L0000079 L0000080 L0000081 L0000082 L0000083 L0000084
SRCGROUP Trucks   L0000085 L0000086 L0000087 L0000088 L0000089 L0000090
SRCGROUP Trucks   L0000091 L0000092 L0000093 L0000094 L0000095 L0000096
SRCGROUP Trucks   L0000097 L0000098 L0000099 L0000100 L0000101 L0000102
SRCGROUP Trucks   L0000103 L0000104 L0000105 L0000106 L0000107 L0000108
SRCGROUP Trucks   L0000109 L0000110 L0000111 L0000112 L0000113 L0000114
SRCGROUP Trucks   L0000115 L0000116 L0000117 L0000118 L0000119 L0000120
SRCGROUP Trucks   L0000121 L0000122 L0000123 L0000124 L0000125 L0000126
SRCGROUP Trucks   L0000127 L0000128 L0000129 L0000130 L0000131 L0000132
SRCGROUP Trucks   L0000133 L0000134 L0000135 L0000136 L0000137 L0000138
SRCGROUP Trucks   L0000139 L0000140 L0000141 L0000142 L0000143 L0000144
SRCGROUP Trucks   L0000145 L0000146 L0000147 L0000148 L0000149 L0000150
SRCGROUP Trucks   L0000151 L0000152 L0000153 L0000154 L0000155 L0000156
SRCGROUP Trucks   L0000157 L0000158 L0000159 L0000160 L0000161 L0000162
SRCGROUP Trucks   L0000163 L0000164 L0000165 L0000166 L0000167 L0000168
SRCGROUP Trucks   L0000169 L0000170 L0000171 L0000172 L0000173 L0000174
SRCGROUP Trucks   L0000175 L0000176 L0000177 L0000178 L0000179 L0000180
SRCGROUP Trucks   L0000181 L0000182 L0000183 L0000184 L0000185 L0000186
SRCGROUP Trucks   L0000187 L0000188 L0000189 L0000190 L0000191 L0000192
SRCGROUP Trucks   L0000193 L0000194 L0000195 L0000196 L0000197 L0000198
SRCGROUP Trucks   L0000199 L0000200 L0000201 L0000202 L0000203 L0000204
SRCGROUP Trucks   L0000205 L0000206 L0000207 L0000208 L0000209 L0000210
SRCGROUP Trucks   L0000211 L0000212 L0000213 L0000214 L0000215 L0000216
SRCGROUP Trucks   L0000217 L0000218 L0000219 L0000220 L0000221 L0000222
SRCGROUP Trucks   L0000223 L0000224 L0000225 L0000226 L0000227 L0000228
SRCGROUP Trucks   L0000229 L0000230 L0000231 L0000232 L0000233 L0000234
SRCGROUP Trucks   L0000235 L0000236 L0000237 L0000238 L0000239 L0000240
SRCGROUP Trucks   L0000241 L0000242 L0000243 L0000244 L0000245 L0000246
SRCGROUP Trucks   L0000247 L0000248 L0000249 L0000250 L0000251 L0000252
SRCGROUP Trucks   L0000253 L0000254 L0000255 L0000256 L0000257 L0000258
SRCGROUP Trucks   L0000259 L0000260 L0000261 L0000262 L0000263 L0000264
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   SRCGROUP Trucks   L0000265 L0000266 L0000267 L0000268 L0000269 L0000270
   SRCGROUP Trucks   L0000271 L0000272 L0000273 L0000274 L0000275 L0000276
   SRCGROUP Trucks   L0000277 L0000278 L0000279 L0000280 L0000281 L0000282
   SRCGROUP Trucks   L0000283 L0000284 L0000285 L0000286 L0000287 L0000288
   SRCGROUP Trucks   L0000289 L0000290 L0000291 L0000292 L0000293 L0000294
   SRCGROUP Trucks   L0000295 L0000296 L0000297 L0000298 L0000299 L0000300
   SRCGROUP Trucks   L0000301 L0000302 L0000303 L0000304 L0000305 L0000306
   SRCGROUP Trucks   L0000307 L0000308 L0000309 L0000310 L0000311 L0000312
   SRCGROUP Trucks   L0000313 L0000314 L0000315 L0000316 L0000317 L0000318
   SRCGROUP Trucks   L0000319 L0000320 L0000321 L0000322 L0000323 L0000324
   SRCGROUP Trucks   L0000325 L0000326 L0000327 L0000328 L0000329 L0000330
   SRCGROUP Trucks   L0000331 L0000332 L0000333 L0000334 L0000335 L0000336
   SRCGROUP Trucks   L0000337 L0000338 L0000339 L0000340 L0000341 L0000342
   SRCGROUP Trucks   L0000343 L0000344 L0000345 L0000346 L0000347 L0000348
   SRCGROUP Trucks   L0000349 L0000350 L0000351 L0000352 L0000353 L0000354
   SRCGROUP Trucks   L0000355 L0000356 L0000357 L0000358 L0000359 L0000360
   SRCGROUP Trucks   L0000361 L0000362 L0000363 L0000364 L0000365 L0000366
   SRCGROUP Trucks   L0000367 L0000368 L0000369 L0000370 L0000371 L0000372
   SRCGROUP Trucks   L0000373 L0000374 L0000375 L0000376 L0000377 L0000378
   SRCGROUP Trucks   L0000379 L0000380 L0000381 L0000382 L0000383 L0000384
   SRCGROUP Trucks   L0000385 L0000386 L0000387 L0000388 L0000389 L0000390
   SRCGROUP Trucks   L0000391 L0000392
   SRCGROUP Fork     L0000393 L0000394 L0000395 L0000396 L0000397 L0000398
   SRCGROUP Fork     L0000399 L0000400 L0000401 L0000402 L0000403 L0000404
   SRCGROUP Fork     L0000405 L0000406 L0000407 L0000408 L0000409
   SRCGROUP Idling   STCK1 STCK2 STCK3 STCK4 STCK5 STCK6 STCK7 STCK8 STCK9
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "3rd and Central.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
   PROFFILE ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 481.0 METERS
```

```
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "3rd and Central.AD\01H1GALL.PLT" 31
   PLOTFILE 1 Trucks 1ST "3rd and Central.AD\01H1G001.PLT" 32
   PLOTFILE 1 Fork 1ST "3rd and Central.AD\01H1G002.PLT" 33
   PLOTFILE 1 Idling 1ST "3rd and Central.AD\01H1G003.PLT" 34
   PLOTFILE PERIOD ALL "3rd and Central.AD\PE00GALL.PLT" 35
   PLOTFILE PERIOD Trucks "3rd and Central.AD\PE00G001.PLT" 36
   PLOTFILE PERIOD Fork "3rd and Central.AD\PE00G002.PLT" 37
   PLOTFILE PERIOD Idling "3rd and Central.AD\PE00G003.PLT" 38
   SUMMFILE "3rd and Central.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    1350       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    1350       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38
```

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   418 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         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:    418 Source(s);       4 Source Group(s); and     892
Receptor(s)

                with:      9 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    409 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      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =   481.00 ;  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 =      4.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   3rd and Central.err

 **File for Summary of Results:   3rd and Central.sum

↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** POINT SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE     STACK   STACK
```

```
STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT
VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)
(M/SEC)  (METERS)                     VARY BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 STCK1            0   0.11111E+00  479787.7 3774094.5   353.8     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK2            0   0.11111E+00  479787.7 3774089.9   353.8     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK3            0   0.11111E+00  479787.7 3774085.4   353.7     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK4            0   0.11111E+00  479787.7 3774077.3   353.7     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK5            0   0.11111E+00  479787.7 3774072.7   353.6     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK6            0   0.11111E+00  479787.7 3774068.2   353.6     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK7            0   0.11111E+00  479787.7 3774063.6   353.6     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK8            0   0.11111E+00  479787.7 3774059.0   353.6     3.96   533.15
11.83     0.31    YES     YES   NO
 STCK9            0   0.11111E+00  479787.7 3774054.5   353.6     3.96   533.15
11.83     0.31    YES     YES   NO
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.25510E-02  479760.5 3774066.3   353.4     3.40     4.00
3.16     YES
 L0000002         0   0.25510E-02  479760.5 3774057.7   353.4     3.40     4.00
3.16     YES
```

L0000003	0	0.25510E-02	479760.5	3774049.1	353.4	3.40	4.00	3.16 YES
L0000004	0	0.25510E-02	479760.6	3774040.5	353.4	3.40	4.00	3.16 YES
L0000005	0	0.25510E-02	479760.6	3774031.9	353.3	3.40	4.00	3.16 YES
L0000006	0	0.25510E-02	479760.6	3774023.3	353.4	3.40	4.00	3.16 YES
L0000007	0	0.25510E-02	479760.7	3774014.7	353.4	3.40	4.00	3.16 YES
L0000008	0	0.25510E-02	479760.7	3774006.1	353.4	3.40	4.00	3.16 YES
L0000009	0	0.25510E-02	479756.3	3774002.1	353.4	3.40	4.00	3.16 YES
L0000010	0	0.25510E-02	479747.7	3774002.3	353.4	3.40	4.00	3.16 YES
L0000011	0	0.25510E-02	479739.2	3774002.6	353.3	3.40	4.00	3.16 YES
L0000012	0	0.25510E-02	479730.6	3774002.9	353.2	3.40	4.00	3.16 YES
L0000013	0	0.25510E-02	479722.0	3774003.2	353.2	3.40	4.00	3.16 YES
L0000014	0	0.25510E-02	479713.4	3774003.5	353.2	3.40	4.00	3.16 YES
L0000015	0	0.25510E-02	479704.8	3774003.8	353.1	3.40	4.00	3.16 YES
L0000016	0	0.25510E-02	479696.2	3774004.0	353.1	3.40	4.00	3.16 YES
L0000017	0	0.25510E-02	479687.7	3774004.3	353.0	3.40	4.00	3.16 YES
L0000018	0	0.25510E-02	479679.1	3774004.6	352.9	3.40	4.00	3.16 YES
L0000019	0	0.25510E-02	479670.5	3774004.9	352.9	3.40	4.00	3.16 YES
L0000020	0	0.25510E-02	479661.9	3774005.2	352.8	3.40	4.00	3.16 YES
L0000021	0	0.25510E-02	479653.3	3774005.4	352.8	3.40	4.00	3.16 YES
L0000022	0	0.25510E-02	479644.7	3774005.7	352.7	3.40	4.00	3.16 YES
L0000023	0	0.25510E-02	479636.1	3774006.0	352.6	3.40	4.00	3.16 YES
L0000024	0	0.25510E-02	479627.6	3774006.3	352.6	3.40	4.00	3.16 YES
L0000025	0	0.25510E-02	479619.0	3774006.6	352.5	3.40	4.00	3.16 YES
L0000026	0	0.25510E-02	479610.4	3774006.9	352.4	3.40	4.00	3.16 YES
L0000027	0	0.25510E-02	479601.8	3774007.1	352.4	3.40	4.00	3.16 YES

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 L0000028         0   0.25510E-02  479593.2 3774007.4   352.3     3.40     4.00
3.16     YES
 L0000029         0   0.25510E-02  479584.6 3774007.7   352.3     3.40     4.00
3.16     YES
 L0000030         0   0.25510E-02  479576.0 3774008.0   352.2     3.40     4.00
3.16     YES
 L0000031         0   0.25510E-02  479567.5 3774008.3   352.1     3.40     4.00
3.16     YES
 L0000032         0   0.25510E-02  479558.9 3774008.6   352.1     3.40     4.00
3.16     YES
 L0000033         0   0.25510E-02  479550.3 3774008.8   352.0     3.40     4.00
3.16     YES
 L0000034         0   0.25510E-02  479541.7 3774009.1   352.0     3.40     4.00
3.16     YES
 L0000035         0   0.25510E-02  479533.1 3774009.4   351.9     3.40     4.00
3.16     YES
 L0000036         0   0.25510E-02  479524.5 3774009.7   351.8     3.40     4.00
3.16     YES
 L0000037         0   0.25510E-02  479515.9 3774010.0   351.8     3.40     4.00
3.16     YES
 L0000038         0   0.25510E-02  479507.4 3774010.2   351.7     3.40     4.00
3.16     YES
 L0000039         0   0.25510E-02  479498.8 3774010.5   351.6     3.40     4.00
3.16     YES
 L0000040         0   0.25510E-02  479490.2 3774010.8   351.6     3.40     4.00
3.16     YES
```



```
                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000041         0   0.25510E-02  479481.6 3774011.1   351.5     3.40     4.00
3.16     YES
 L0000042         0   0.25510E-02  479473.0 3774011.4   351.4     3.40     4.00
3.16     YES
```

L0000043	0	0.25510E-02	479464.4	3774011.7	351.4	3.40	4.00	3.16 YES
L0000044	0	0.25510E-02	479455.8	3774011.9	351.3	3.40	4.00	3.16 YES
L0000045	0	0.25510E-02	479447.3	3774012.2	351.2	3.40	4.00	3.16 YES
L0000046	0	0.25510E-02	479438.7	3774012.5	351.2	3.40	4.00	3.16 YES
L0000047	0	0.25510E-02	479430.1	3774012.8	351.1	3.40	4.00	3.16 YES
L0000048	0	0.25510E-02	479421.5	3774013.1	351.1	3.40	4.00	3.16 YES
L0000049	0	0.25510E-02	479412.9	3774013.4	351.0	3.40	4.00	3.16 YES
L0000050	0	0.25510E-02	479404.3	3774013.6	351.0	3.40	4.00	3.16 YES
L0000051	0	0.25510E-02	479395.8	3774013.9	350.9	3.40	4.00	3.16 YES
L0000052	0	0.25510E-02	479387.2	3774014.2	350.9	3.40	4.00	3.16 YES
L0000053	0	0.25510E-02	479378.6	3774014.5	350.9	3.40	4.00	3.16 YES
L0000054	0	0.25510E-02	479370.0	3774014.8	350.8	3.40	4.00	3.16 YES
L0000055	0	0.25510E-02	479361.4	3774015.0	350.6	3.40	4.00	3.16 YES
L0000056	0	0.25510E-02	479352.8	3774015.3	350.6	3.40	4.00	3.16 YES
L0000057	0	0.25510E-02	479344.2	3774015.6	350.6	3.40	4.00	3.16 YES
L0000058	0	0.25510E-02	479335.7	3774015.9	350.6	3.40	4.00	3.16 YES
L0000059	0	0.25510E-02	479327.1	3774016.2	350.5	3.40	4.00	3.16 YES
L0000060	0	0.25510E-02	479318.5	3774016.6	350.4	3.40	4.00	3.16 YES
L0000061	0	0.25510E-02	479309.9	3774016.9	350.3	3.40	4.00	3.16 YES
L0000062	0	0.25510E-02	479301.3	3774017.2	350.3	3.40	4.00	3.16 YES
L0000063	0	0.25510E-02	479292.7	3774017.5	350.2	3.40	4.00	3.16 YES
L0000064	0	0.25510E-02	479284.1	3774017.9	350.1	3.40	4.00	3.16 YES
L0000065	0	0.25510E-02	479275.6	3774018.2	350.0	3.40	4.00	3.16 YES
L0000066	0	0.25510E-02	479267.0	3774018.5	349.9	3.40	4.00	3.16 YES
L0000067	0	0.25510E-02	479258.4	3774018.8	349.8	3.40	4.00	3.16 YES

```
 L0000068         0   0.25510E-02  479249.8 3774019.1   349.8     3.40     4.00
3.16     YES
 L0000069         0   0.25510E-02  479241.2 3774019.5   349.7     3.40     4.00
3.16     YES
 L0000070         0   0.25510E-02  479232.6 3774019.8   349.6     3.40     4.00
3.16     YES
 L0000071         0   0.25510E-02  479224.1 3774020.1   349.5     3.40     4.00
3.16     YES
 L0000072         0   0.25510E-02  479215.5 3774020.4   349.5     3.40     4.00
3.16     YES
 L0000073         0   0.25510E-02  479206.9 3774020.8   349.4     3.40     4.00
3.16     YES
 L0000074         0   0.25510E-02  479198.3 3774021.1   349.4     3.40     4.00
3.16     YES
 L0000075         0   0.25510E-02  479189.7 3774021.4   349.3     3.40     4.00
3.16     YES
 L0000076         0   0.25510E-02  479181.1 3774021.7   349.3     3.40     4.00
3.16     YES
 L0000077         0   0.25510E-02  479172.6 3774022.0   349.2     3.40     4.00
3.16     YES
 L0000078         0   0.25510E-02  479164.0 3774022.4   349.2     3.40     4.00
3.16     YES
 L0000079         0   0.25510E-02  479155.4 3774022.7   349.1     3.40     4.00
3.16     YES
 L0000080         0   0.25510E-02  479146.8 3774023.0   349.1     3.40     4.00
3.16     YES
```


*** VOLUME SOURCE DATA ***

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              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000081         0   0.25510E-02  479146.0 3774031.2   349.0     3.40     4.00
3.16     YES
 L0000082         0   0.25510E-02  479145.7 3774039.7   348.9     3.40     4.00
3.16     YES
```

L0000083	0	0.25510E-02	479145.4	3774048.3	348.9	3.40	4.00	3.16 YES
L0000084	0	0.25510E-02	479145.0	3774056.9	349.0	3.40	4.00	3.16 YES
L0000085	0	0.25510E-02	479144.8	3774065.5	349.1	3.40	4.00	3.16 YES
L0000086	0	0.25510E-02	479144.7	3774074.1	349.1	3.40	4.00	3.16 YES
L0000087	0	0.25510E-02	479144.6	3774082.7	349.2	3.40	4.00	3.16 YES
L0000088	0	0.25510E-02	479144.5	3774091.3	349.2	3.40	4.00	3.16 YES
L0000089	0	0.25510E-02	479144.3	3774099.8	349.2	3.40	4.00	3.16 YES
L0000090	0	0.25510E-02	479144.2	3774108.4	349.2	3.40	4.00	3.16 YES
L0000091	0	0.25510E-02	479144.1	3774117.0	349.3	3.40	4.00	3.16 YES
L0000092	0	0.25510E-02	479144.0	3774125.6	349.3	3.40	4.00	3.16 YES
L0000093	0	0.25510E-02	479143.9	3774134.2	349.4	3.40	4.00	3.16 YES
L0000094	0	0.25510E-02	479143.8	3774142.8	349.4	3.40	4.00	3.16 YES
L0000095	0	0.25510E-02	479143.7	3774151.4	349.4	3.40	4.00	3.16 YES
L0000096	0	0.25510E-02	479143.5	3774160.0	349.5	3.40	4.00	3.16 YES
L0000097	0	0.25510E-02	479143.4	3774168.6	349.5	3.40	4.00	3.16 YES
L0000098	0	0.25510E-02	479143.3	3774177.2	349.5	3.40	4.00	3.16 YES
L0000099	0	0.25510E-02	479143.2	3774185.7	349.6	3.40	4.00	3.16 YES
L0000100	0	0.25510E-02	479143.1	3774194.3	349.6	3.40	4.00	3.16 YES
L0000101	0	0.25510E-02	479147.6	3774198.4	349.6	3.40	4.00	3.16 YES
L0000102	0	0.25510E-02	479156.2	3774198.4	349.7	3.40	4.00	3.16 YES
L0000103	0	0.25510E-02	479164.7	3774198.4	349.8	3.40	4.00	3.16 YES
L0000104	0	0.25510E-02	479173.3	3774198.4	349.8	3.40	4.00	3.16 YES
L0000105	0	0.25510E-02	479181.9	3774198.4	349.9	3.40	4.00	3.16 YES
L0000106	0	0.25510E-02	479190.5	3774198.5	350.0	3.40	4.00	3.16 YES
L0000107	0	0.25510E-02	479199.1	3774198.5	350.1	3.40	4.00	3.16 YES

```
 L0000108         0   0.25510E-02  479207.7 3774198.5   350.1     3.40     4.00
3.16     YES
 L0000109         0   0.25510E-02  479216.3 3774198.5   350.2     3.40     4.00
3.16     YES
 L0000110         0   0.25510E-02  479224.9 3774198.5   350.2     3.40     4.00
3.16     YES
 L0000111         0   0.25510E-02  479233.5 3774198.4   350.3     3.40     4.00
3.16     YES
 L0000112         0   0.25510E-02  479242.1 3774198.4   350.4     3.40     4.00
3.16     YES
 L0000113         0   0.25510E-02  479250.6 3774198.3   350.4     3.40     4.00
3.16     YES
 L0000114         0   0.25510E-02  479259.2 3774198.3   350.5     3.40     4.00
3.16     YES
 L0000115         0   0.25510E-02  479267.8 3774198.2   350.6     3.40     4.00
3.16     YES
 L0000116         0   0.25510E-02  479276.4 3774198.2   350.7     3.40     4.00
3.16     YES
 L0000117         0   0.25510E-02  479285.0 3774198.1   350.7     3.40     4.00
3.16     YES
 L0000118         0   0.25510E-02  479293.6 3774198.1   350.8     3.40     4.00
3.16     YES
 L0000119         0   0.25510E-02  479302.2 3774198.0   350.9     3.40     4.00
3.16     YES
 L0000120         0   0.25510E-02  479310.8 3774198.0   350.9     3.40     4.00
3.16     YES
```



```
                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000121         0   0.25510E-02  479319.4 3774197.9   351.0     3.40     4.00
3.16     YES
 L0000122         0   0.25510E-02  479328.0 3774197.9   351.1     3.40     4.00
3.16     YES
```

L0000123	0	0.25510E-02	479336.5	3774197.8	351.2	3.40	4.00	3.16 YES
L0000124	0	0.25510E-02	479345.1	3774197.8	351.2	3.40	4.00	3.16 YES
L0000125	0	0.25510E-02	479353.7	3774197.7	351.3	3.40	4.00	3.16 YES
L0000126	0	0.25510E-02	479362.3	3774197.7	351.4	3.40	4.00	3.16 YES
L0000127	0	0.25510E-02	479370.9	3774197.6	351.4	3.40	4.00	3.16 YES
L0000128	0	0.25510E-02	479379.5	3774197.6	351.5	3.40	4.00	3.16 YES
L0000129	0	0.25510E-02	479388.1	3774197.5	351.6	3.40	4.00	3.16 YES
L0000130	0	0.25510E-02	479396.7	3774197.5	351.7	3.40	4.00	3.16 YES
L0000131	0	0.25510E-02	479405.3	3774197.4	351.8	3.40	4.00	3.16 YES
L0000132	0	0.25510E-02	479413.8	3774197.4	351.8	3.40	4.00	3.16 YES
L0000133	0	0.25510E-02	479422.4	3774197.3	351.9	3.40	4.00	3.16 YES
L0000134	0	0.25510E-02	479431.0	3774197.3	352.0	3.40	4.00	3.16 YES
L0000135	0	0.25510E-02	479439.6	3774197.2	352.0	3.40	4.00	3.16 YES
L0000136	0	0.25510E-02	479448.2	3774197.2	352.1	3.40	4.00	3.16 YES
L0000137	0	0.25510E-02	479456.8	3774197.1	352.2	3.40	4.00	3.16 YES
L0000138	0	0.25510E-02	479465.4	3774197.1	352.3	3.40	4.00	3.16 YES
L0000139	0	0.25510E-02	479474.0	3774197.0	352.3	3.40	4.00	3.16 YES
L0000140	0	0.25510E-02	479482.6	3774197.0	352.4	3.40	4.00	3.16 YES
L0000141	0	0.25510E-02	479491.2	3774196.9	352.5	3.40	4.00	3.16 YES
L0000142	0	0.25510E-02	479499.7	3774196.9	352.5	3.40	4.00	3.16 YES
L0000143	0	0.25510E-02	479508.3	3774196.8	352.6	3.40	4.00	3.16 YES
L0000144	0	0.25510E-02	479516.9	3774196.8	352.7	3.40	4.00	3.16 YES
L0000145	0	0.25510E-02	479525.5	3774196.7	352.8	3.40	4.00	3.16 YES
L0000146	0	0.25510E-02	479534.1	3774196.7	352.8	3.40	4.00	3.16 YES
L0000147	0	0.25510E-02	479542.7	3774196.6	352.9	3.40	4.00	3.16 YES

```
 L0000148         0   0.25510E-02  479551.3 3774196.6   353.0     3.40     4.00
3.16     YES
 L0000149         0   0.25510E-02  479559.9 3774196.5   353.0     3.40     4.00
3.16     YES
 L0000150         0   0.25510E-02  479568.5 3774196.5   353.1     3.40     4.00
3.16     YES
 L0000151         0   0.25510E-02  479577.1 3774196.4   353.2     3.40     4.00
3.16     YES
 L0000152         0   0.25510E-02  479585.6 3774196.4   353.3     3.40     4.00
3.16     YES
 L0000153         0   0.25510E-02  479594.2 3774196.3   353.3     3.40     4.00
3.16     YES
 L0000154         0   0.25510E-02  479602.8 3774196.3   353.4     3.40     4.00
3.16     YES
 L0000155         0   0.25510E-02  479611.4 3774196.2   353.5     3.40     4.00
3.16     YES
 L0000156         0   0.25510E-02  479620.0 3774196.2   353.6     3.40     4.00
3.16     YES
 L0000157         0   0.25510E-02  479628.6 3774196.1   353.7     3.40     4.00
3.16     YES
 L0000158         0   0.25510E-02  479637.2 3774196.1   353.7     3.40     4.00
3.16     YES
 L0000159         0   0.25510E-02  479645.8 3774196.0   353.8     3.40     4.00
3.16     YES
 L0000160         0   0.25510E-02  479654.4 3774196.0   353.9     3.40     4.00
3.16     YES
```



```
                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000161         0   0.25510E-02  479663.0 3774195.9   353.9     3.40     4.00
3.16     YES
 L0000162         0   0.25510E-02  479671.5 3774195.9   354.1     3.40     4.00
3.16     YES
```

L0000163	0	0.25510E-02	479680.1	3774195.8	354.1	3.40	4.00	3.16 YES
L0000164	0	0.25510E-02	479688.7	3774195.8	354.2	3.40	4.00	3.16 YES
L0000165	0	0.25510E-02	479697.3	3774195.7	354.3	3.40	4.00	3.16 YES
L0000166	0	0.25510E-02	479705.9	3774195.6	354.3	3.40	4.00	3.16 YES
L0000167	0	0.25510E-02	479714.5	3774195.6	354.4	3.40	4.00	3.16 YES
L0000168	0	0.25510E-02	479723.1	3774195.5	354.5	3.40	4.00	3.16 YES
L0000169	0	0.25510E-02	479731.7	3774195.5	354.5	3.40	4.00	3.16 YES
L0000170	0	0.25510E-02	479740.3	3774195.4	354.5	3.40	4.00	3.16 YES
L0000171	0	0.25510E-02	479748.9	3774195.4	354.6	3.40	4.00	3.16 YES
L0000172	0	0.25510E-02	479757.4	3774195.3	354.7	3.40	4.00	3.16 YES
L0000173	0	0.25510E-02	479766.0	3774195.3	354.8	3.40	4.00	3.16 YES
L0000174	0	0.25510E-02	479774.6	3774195.2	354.9	3.40	4.00	3.16 YES
L0000175	0	0.25510E-02	479783.2	3774195.2	355.0	3.40	4.00	3.16 YES
L0000176	0	0.25510E-02	479791.8	3774195.1	355.1	3.40	4.00	3.16 YES
L0000177	0	0.25510E-02	479800.4	3774195.1	355.1	3.40	4.00	3.16 YES
L0000178	0	0.25510E-02	479809.0	3774195.0	355.2	3.40	4.00	3.16 YES
L0000179	0	0.25510E-02	479817.6	3774195.0	355.2	3.40	4.00	3.16 YES
L0000180	0	0.25510E-02	479826.2	3774194.9	355.3	3.40	4.00	3.16 YES
L0000181	0	0.25510E-02	479834.8	3774194.9	355.4	3.40	4.00	3.16 YES
L0000182	0	0.25510E-02	479843.3	3774194.8	355.4	3.40	4.00	3.16 YES
L0000183	0	0.25510E-02	479851.9	3774194.7	355.5	3.40	4.00	3.16 YES
L0000184	0	0.25510E-02	479860.5	3774194.5	355.6	3.40	4.00	3.16 YES
L0000185	0	0.25510E-02	479869.1	3774194.4	355.6	3.40	4.00	3.16 YES
L0000186	0	0.25510E-02	479877.7	3774194.3	355.7	3.40	4.00	3.16 YES
L0000187	0	0.25510E-02	479886.3	3774194.2	355.8	3.40	4.00	3.16 YES

```
 L0000188         0   0.25510E-02  479894.9 3774194.1   355.8     3.40     4.00
3.16     YES
 L0000189         0   0.25510E-02  479903.5 3774193.9   355.9     3.40     4.00
3.16     YES
 L0000190         0   0.25510E-02  479912.1 3774193.8   356.0     3.40     4.00
3.16     YES
 L0000191         0   0.25510E-02  479920.6 3774193.7   356.1     3.40     4.00
3.16     YES
 L0000192         0   0.25510E-02  479929.2 3774193.5   356.1     3.40     4.00
3.16     YES
 L0000193         0   0.25510E-02  479937.8 3774193.3   356.2     3.40     4.00
3.16     YES
 L0000194         0   0.25510E-02  479946.4 3774193.1   356.3     3.40     4.00
3.16     YES
 L0000195         0   0.25510E-02  479955.0 3774192.8   356.4     3.40     4.00
3.16     YES
 L0000196         0   0.25510E-02  479963.6 3774192.3   356.4     3.40     4.00
3.16     YES
 L0000197         0   0.25510E-02  479972.1 3774191.7   356.4     3.40     4.00
3.16     YES
 L0000198         0   0.25510E-02  479980.7 3774191.1   356.5     3.40     4.00
3.16     YES
 L0000199         0   0.25510E-02  479989.3 3774190.5   356.6     3.40     4.00
3.16     YES
 L0000200         0   0.25510E-02  479997.8 3774189.9   356.6     3.40     4.00
3.16     YES
```



```
                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000201         0   0.25510E-02  480006.4 3774189.4   356.7     3.40     4.00
3.16     YES
 L0000202         0   0.25510E-02  480015.0 3774188.8   356.7     3.40     4.00
3.16     YES
```

L0000203	0	0.25510E-02	480023.6	3774188.2	356.8	3.40	4.00	3.16 YES
L0000204	0	0.25510E-02	480032.1	3774187.5	356.9	3.40	4.00	3.16 YES
L0000205	0	0.25510E-02	480040.7	3774186.8	356.9	3.40	4.00	3.16 YES
L0000206	0	0.25510E-02	480049.2	3774186.2	357.0	3.40	4.00	3.16 YES
L0000207	0	0.25510E-02	480057.8	3774185.5	357.1	3.40	4.00	3.16 YES
L0000208	0	0.25510E-02	480066.4	3774184.8	357.1	3.40	4.00	3.16 YES
L0000209	0	0.25510E-02	480074.9	3774184.1	357.2	3.40	4.00	3.16 YES
L0000210	0	0.25510E-02	480083.5	3774183.5	357.3	3.40	4.00	3.16 YES
L0000211	0	0.25510E-02	480092.1	3774182.8	357.3	3.40	4.00	3.16 YES
L0000212	0	0.25510E-02	480100.6	3774182.1	357.4	3.40	4.00	3.16 YES
L0000213	0	0.25510E-02	480109.2	3774181.5	357.5	3.40	4.00	3.16 YES
L0000214	0	0.25510E-02	480117.8	3774180.8	357.5	3.40	4.00	3.16 YES
L0000215	0	0.25510E-02	480126.3	3774180.1	357.6	3.40	4.00	3.16 YES
L0000216	0	0.25510E-02	480134.9	3774179.4	357.7	3.40	4.00	3.16 YES
L0000217	0	0.25510E-02	480143.4	3774178.8	357.7	3.40	4.00	3.16 YES
L0000218	0	0.25510E-02	480152.0	3774178.1	357.8	3.40	4.00	3.16 YES
L0000219	0	0.25510E-02	480160.6	3774177.4	357.8	3.40	4.00	3.16 YES
L0000220	0	0.25510E-02	480169.1	3774176.8	357.9	3.40	4.00	3.16 YES
L0000221	0	0.25510E-02	480177.7	3774176.1	358.0	3.40	4.00	3.16 YES
L0000222	0	0.25510E-02	480186.3	3774175.4	358.0	3.40	4.00	3.16 YES
L0000223	0	0.25510E-02	480194.8	3774174.7	358.1	3.40	4.00	3.16 YES
L0000224	0	0.25510E-02	480203.4	3774174.1	358.2	3.40	4.00	3.16 YES
L0000225	0	0.25510E-02	480212.0	3774173.4	358.2	3.40	4.00	3.16 YES
L0000226	0	0.25510E-02	480220.5	3774172.7	358.3	3.40	4.00	3.16 YES
L0000227	0	0.25510E-02	480229.1	3774172.1	358.4	3.40	4.00	3.16 YES

```
 L0000228         0   0.25510E-02  480237.6 3774171.4   358.5     3.40     4.00
3.16     YES
 L0000229         0   0.25510E-02  480246.2 3774170.7   358.5     3.40     4.00
3.16     YES
 L0000230         0   0.25510E-02  480254.8 3774170.0   358.6     3.40     4.00
3.16     YES
 L0000231         0   0.25510E-02  480263.3 3774169.4   358.7     3.40     4.00
3.16     YES
 L0000232         0   0.25510E-02  480271.9 3774168.7   358.7     3.40     4.00
3.16     YES
 L0000233         0   0.25510E-02  480280.5 3774168.0   358.8     3.40     4.00
3.16     YES
 L0000234         0   0.25510E-02  480289.0 3774167.4   358.9     3.40     4.00
3.16     YES
 L0000235         0   0.25510E-02  480297.6 3774166.7   359.0     3.40     4.00
3.16     YES
 L0000236         0   0.25510E-02  480306.2 3774166.0   359.0     3.40     4.00
3.16     YES
 L0000237         0   0.25510E-02  480314.7 3774165.3   359.1     3.40     4.00
3.16     YES
 L0000238         0   0.25510E-02  480323.3 3774164.7   359.2     3.40     4.00
3.16     YES
 L0000239         0   0.25510E-02  480331.8 3774164.0   359.2     3.40     4.00
3.16     YES
 L0000240         0   0.25510E-02  480340.4 3774163.3   359.3     3.40     4.00
3.16     YES
```



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                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000241         0   0.25510E-02  480349.0 3774162.6   359.4     3.40     4.00
3.16     YES
 L0000242         0   0.25510E-02  480357.5 3774161.9   359.4     3.40     4.00
3.16     YES
```

L0000243	0	0.25510E-02	480366.1	3774161.2	359.5	3.40	4.00	3.16 YES
L0000244	0	0.25510E-02	480374.7	3774160.5	359.6	3.40	4.00	3.16 YES
L0000245	0	0.25510E-02	480383.2	3774159.8	359.7	3.40	4.00	3.16 YES
L0000246	0	0.25510E-02	480391.8	3774159.1	359.7	3.40	4.00	3.16 YES
L0000247	0	0.25510E-02	480400.3	3774158.4	359.8	3.40	4.00	3.16 YES
L0000248	0	0.25510E-02	480408.9	3774157.7	359.9	3.40	4.00	3.16 YES
L0000249	0	0.25510E-02	480417.5	3774157.0	360.0	3.40	4.00	3.16 YES
L0000250	0	0.25510E-02	480426.0	3774156.3	360.1	3.40	4.00	3.16 YES
L0000251	0	0.25510E-02	480434.6	3774155.5	360.2	3.40	4.00	3.16 YES
L0000252	0	0.25510E-02	480443.1	3774154.8	360.3	3.40	4.00	3.16 YES
L0000253	0	0.25510E-02	480451.7	3774154.1	360.4	3.40	4.00	3.16 YES
L0000254	0	0.25510E-02	480460.3	3774153.4	360.5	3.40	4.00	3.16 YES
L0000255	0	0.25510E-02	480468.8	3774152.7	360.6	3.40	4.00	3.16 YES
L0000256	0	0.25510E-02	480477.4	3774152.0	360.7	3.40	4.00	3.16 YES
L0000257	0	0.25510E-02	480485.9	3774151.3	360.9	3.40	4.00	3.16 YES
L0000258	0	0.25510E-02	480494.5	3774150.6	361.0	3.40	4.00	3.16 YES
L0000259	0	0.25510E-02	480503.1	3774149.9	361.1	3.40	4.00	3.16 YES
L0000260	0	0.25510E-02	480511.6	3774149.2	361.2	3.40	4.00	3.16 YES
L0000261	0	0.25510E-02	480520.2	3774148.5	361.4	3.40	4.00	3.16 YES
L0000262	0	0.25510E-02	480528.8	3774147.8	361.5	3.40	4.00	3.16 YES
L0000263	0	0.25510E-02	480537.3	3774147.1	361.7	3.40	4.00	3.16 YES
L0000264	0	0.25510E-02	480545.9	3774146.4	361.8	3.40	4.00	3.16 YES
L0000265	0	0.25510E-02	480554.4	3774145.7	361.8	3.40	4.00	3.16 YES
L0000266	0	0.25510E-02	480563.0	3774145.0	361.9	3.40	4.00	3.16 YES
L0000267	0	0.25510E-02	480571.6	3774144.3	362.0	3.40	4.00	3.16 YES

```
 L0000268         0   0.25510E-02  480580.1 3774143.6   362.1     3.40     4.00
3.16     YES
 L0000269         0   0.25510E-02  480588.7 3774142.9   362.2     3.40     4.00
3.16     YES
 L0000270         0   0.25510E-02  480597.2 3774142.2   362.3     3.40     4.00
3.16     YES
 L0000271         0   0.25510E-02  480605.8 3774141.5   362.4     3.40     4.00
3.16     YES
 L0000272         0   0.25510E-02  480614.4 3774140.8   362.5     3.40     4.00
3.16     YES
 L0000273         0   0.25510E-02  480622.9 3774140.1   362.6     3.40     4.00
3.16     YES
 L0000274         0   0.25510E-02  480631.5 3774139.4   362.7     3.40     4.00
3.16     YES
 L0000275         0   0.25510E-02  480640.0 3774138.6   362.8     3.40     4.00
3.16     YES
 L0000276         0   0.25510E-02  480648.6 3774137.9   362.9     3.40     4.00
3.16     YES
 L0000277         0   0.25510E-02  480657.2 3774137.2   363.0     3.40     4.00
3.16     YES
 L0000278         0   0.25510E-02  480665.7 3774136.5   363.1     3.40     4.00
3.16     YES
 L0000279         0   0.25510E-02  480674.3 3774135.8   363.2     3.40     4.00
3.16     YES
 L0000280         0   0.25510E-02  480682.9 3774135.1   363.2     3.40     4.00
3.16     YES
```



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                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000281         0   0.25510E-02  480691.4 3774134.4   363.3     3.40     4.00
3.16     YES
 L0000282         0   0.25510E-02  480700.0 3774133.7   363.4     3.40     4.00
3.16     YES
```

L0000283	0	0.25510E-02	480708.5	3774133.0	363.5	3.40	4.00	3.16 YES
L0000284	0	0.25510E-02	480717.1	3774132.3	363.6	3.40	4.00	3.16 YES
L0000285	0	0.25510E-02	480725.7	3774131.6	363.6	3.40	4.00	3.16 YES
L0000286	0	0.25510E-02	480734.2	3774130.9	363.6	3.40	4.00	3.16 YES
L0000287	0	0.25510E-02	480742.8	3774130.2	363.7	3.40	4.00	3.16 YES
L0000288	0	0.25510E-02	480751.3	3774129.5	363.8	3.40	4.00	3.16 YES
L0000289	0	0.25510E-02	480759.9	3774128.8	363.9	3.40	4.00	3.16 YES
L0000290	0	0.25510E-02	480768.5	3774128.1	364.0	3.40	4.00	3.16 YES
L0000291	0	0.25510E-02	480777.0	3774127.5	364.1	3.40	4.00	3.16 YES
L0000292	0	0.25510E-02	480785.6	3774126.8	364.2	3.40	4.00	3.16 YES
L0000293	0	0.25510E-02	480794.2	3774126.1	364.4	3.40	4.00	3.16 YES
L0000294	0	0.25510E-02	480802.7	3774125.4	364.5	3.40	4.00	3.16 YES
L0000295	0	0.25510E-02	480811.3	3774124.7	364.7	3.40	4.00	3.16 YES
L0000296	0	0.25510E-02	480819.8	3774124.0	364.8	3.40	4.00	3.16 YES
L0000297	0	0.25510E-02	480828.4	3774123.4	364.9	3.40	4.00	3.16 YES
L0000298	0	0.25510E-02	480837.0	3774122.7	364.9	3.40	4.00	3.16 YES
L0000299	0	0.25510E-02	480845.5	3774122.0	365.0	3.40	4.00	3.16 YES
L0000300	0	0.25510E-02	480854.1	3774121.3	365.0	3.40	4.00	3.16 YES
L0000301	0	0.25510E-02	480862.7	3774120.6	365.1	3.40	4.00	3.16 YES
L0000302	0	0.25510E-02	480871.2	3774119.9	365.2	3.40	4.00	3.16 YES
L0000303	0	0.25510E-02	480879.8	3774119.3	365.2	3.40	4.00	3.16 YES
L0000304	0	0.25510E-02	480888.3	3774118.6	365.3	3.40	4.00	3.16 YES
L0000305	0	0.25510E-02	480896.9	3774117.9	365.4	3.40	4.00	3.16 YES
L0000306	0	0.25510E-02	480905.5	3774117.2	365.4	3.40	4.00	3.16 YES
L0000307	0	0.25510E-02	480914.0	3774116.5	365.5	3.40	4.00	3.16 YES

```
 L0000308         0   0.25510E-02  480922.6 3774115.8   365.6     3.40     4.00
3.16     YES
 L0000309         0   0.25510E-02  480931.2 3774115.1   365.7     3.40     4.00
3.16     YES
 L0000310         0   0.25510E-02  480939.7 3774114.5   365.8     3.40     4.00
3.16     YES
 L0000311         0   0.25510E-02  480948.3 3774113.8   365.9     3.40     4.00
3.16     YES
 L0000312         0   0.25510E-02  480956.8 3774113.1   366.1     3.40     4.00
3.16     YES
 L0000313         0   0.25510E-02  480965.4 3774112.4   366.2     3.40     4.00
3.16     YES
 L0000314         0   0.25510E-02  480974.0 3774111.7   366.4     3.40     4.00
3.16     YES
 L0000315         0   0.25510E-02  480982.5 3774111.0   366.6     3.40     4.00
3.16     YES
 L0000316         0   0.25510E-02  480991.1 3774110.4   366.7     3.40     4.00
3.16     YES
 L0000317         0   0.25510E-02  480999.7 3774109.7   366.9     3.40     4.00
3.16     YES
 L0000318         0   0.25510E-02  481008.2 3774109.0   367.1     3.40     4.00
3.16     YES
 L0000319         0   0.25510E-02  481016.8 3774108.3   367.2     3.40     4.00
3.16     YES
 L0000320         0   0.25510E-02  481025.3 3774107.6   367.4     3.40     4.00
3.16     YES
```



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                                                 *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000321         0   0.25510E-02  481033.9 3774106.9   367.6     3.40     4.00
3.16     YES
 L0000322         0   0.25510E-02  481042.5 3774106.2   367.8     3.40     4.00
3.16     YES
```

L0000323	0	0.25510E-02	481051.0	3774105.6	368.0	3.40	4.00	3.16 YES
L0000324	0	0.25510E-02	481059.6	3774104.9	368.2	3.40	4.00	3.16 YES
L0000325	0	0.25510E-02	481068.2	3774104.2	368.3	3.40	4.00	3.16 YES
L0000326	0	0.25510E-02	481076.7	3774103.5	368.5	3.40	4.00	3.16 YES
L0000327	0	0.25510E-02	481085.3	3774102.8	368.7	3.40	4.00	3.16 YES
L0000328	0	0.25510E-02	481093.8	3774102.1	368.9	3.40	4.00	3.16 YES
L0000329	0	0.25510E-02	481102.4	3774101.5	369.1	3.40	4.00	3.16 YES
L0000330	0	0.25510E-02	481111.0	3774100.8	369.3	3.40	4.00	3.16 YES
L0000331	0	0.25510E-02	481119.5	3774100.1	369.5	3.40	4.00	3.16 YES
L0000332	0	0.25510E-02	481128.1	3774099.8	369.7	3.40	4.00	3.16 YES
L0000333	0	0.25510E-02	481136.7	3774099.4	369.9	3.40	4.00	3.16 YES
L0000334	0	0.25510E-02	481145.3	3774099.0	370.0	3.40	4.00	3.16 YES
L0000335	0	0.25510E-02	481153.9	3774098.7	370.2	3.40	4.00	3.16 YES
L0000336	0	0.25510E-02	481162.5	3774098.8	370.4	3.40	4.00	3.16 YES
L0000337	0	0.25510E-02	481171.0	3774099.1	370.6	3.40	4.00	3.16 YES
L0000338	0	0.25510E-02	481179.6	3774099.5	370.8	3.40	4.00	3.16 YES
L0000339	0	0.25510E-02	481188.2	3774099.9	370.9	3.40	4.00	3.16 YES
L0000340	0	0.25510E-02	481196.8	3774100.7	371.1	3.40	4.00	3.16 YES
L0000341	0	0.25510E-02	481205.3	3774101.4	371.3	3.40	4.00	3.16 YES
L0000342	0	0.25510E-02	481213.9	3774102.1	371.4	3.40	4.00	3.16 YES
L0000343	0	0.25510E-02	481222.4	3774102.8	371.5	3.40	4.00	3.16 YES
L0000344	0	0.25510E-02	481231.0	3774103.5	371.6	3.40	4.00	3.16 YES
L0000345	0	0.25510E-02	481239.6	3774104.2	371.7	3.40	4.00	3.16 YES
L0000346	0	0.25510E-02	481248.1	3774104.9	371.6	3.40	4.00	3.16 YES
L0000347	0	0.25510E-02	481256.7	3774105.6	371.0	3.40	4.00	3.16 YES

```
 L0000348         0   0.25510E-02  481265.2 3774106.3   370.0     3.40     4.00
3.16     YES
 L0000349         0   0.25510E-02  481273.8 3774107.0   368.7     3.40     4.00
3.16     YES
 L0000350         0   0.25510E-02  481282.4 3774107.8   367.3     3.40     4.00
3.16     YES
 L0000351         0   0.25510E-02  481290.9 3774108.5   366.2     3.40     4.00
3.16     YES
 L0000352         0   0.25510E-02  481299.5 3774109.2   365.8     3.40     4.00
3.16     YES
 L0000353         0   0.25510E-02  481308.0 3774109.9   365.8     3.40     4.00
3.16     YES
 L0000354         0   0.25510E-02  481316.6 3774110.6   365.9     3.40     4.00
3.16     YES
 L0000355         0   0.25510E-02  481325.2 3774111.3   365.9     3.40     4.00
3.16     YES
 L0000356         0   0.25510E-02  481333.7 3774112.0   365.9     3.40     4.00
3.16     YES
 L0000357         0   0.25510E-02  481342.3 3774112.7   366.0     3.40     4.00
3.16     YES
 L0000358         0   0.25510E-02  481350.8 3774113.4   366.0     3.40     4.00
3.16     YES
 L0000359         0   0.25510E-02  481359.4 3774114.1   366.1     3.40     4.00
3.16     YES
 L0000360         0   0.25510E-02  481368.0 3774114.9   366.2     3.40     4.00
3.16     YES
```



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                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   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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 L0000361         0   0.25510E-02  481376.5 3774115.6   366.8     3.40     4.00
3.16     YES
 L0000362         0   0.25510E-02  481385.1 3774116.3   368.3     3.40     4.00
3.16     YES
```

L0000363	0	0.25510E-02	481393.6	3774117.0	370.3	3.40	4.00	3.16 YES
L0000364	0	0.25510E-02	481402.2	3774117.7	371.6	3.40	4.00	3.16 YES
L0000365	0	0.25510E-02	481410.8	3774118.4	372.0	3.40	4.00	3.16 YES
L0000366	0	0.25510E-02	481419.3	3774119.1	372.1	3.40	4.00	3.16 YES
L0000367	0	0.25510E-02	481427.9	3774119.8	372.1	3.40	4.00	3.16 YES
L0000368	0	0.25510E-02	481436.5	3774120.5	372.1	3.40	4.00	3.16 YES
L0000369	0	0.25510E-02	481445.0	3774121.2	372.2	3.40	4.00	3.16 YES
L0000370	0	0.25510E-02	481453.6	3774122.0	372.2	3.40	4.00	3.16 YES
L0000371	0	0.25510E-02	481462.1	3774122.7	372.2	3.40	4.00	3.16 YES
L0000372	0	0.25510E-02	481470.7	3774123.3	372.3	3.40	4.00	3.16 YES
L0000373	0	0.25510E-02	481479.3	3774123.9	372.4	3.40	4.00	3.16 YES
L0000374	0	0.25510E-02	481487.8	3774124.5	372.4	3.40	4.00	3.16 YES
L0000375	0	0.25510E-02	481496.4	3774125.1	372.4	3.40	4.00	3.16 YES
L0000376	0	0.25510E-02	481505.0	3774125.7	372.4	3.40	4.00	3.16 YES
L0000377	0	0.25510E-02	481513.5	3774126.4	372.5	3.40	4.00	3.16 YES
L0000378	0	0.25510E-02	481522.1	3774127.0	372.5	3.40	4.00	3.16 YES
L0000379	0	0.25510E-02	481530.7	3774127.6	372.6	3.40	4.00	3.16 YES
L0000380	0	0.25510E-02	481539.2	3774128.2	372.6	3.40	4.00	3.16 YES
L0000381	0	0.25510E-02	481547.8	3774128.8	372.6	3.40	4.00	3.16 YES
L0000382	0	0.25510E-02	481556.4	3774129.4	372.7	3.40	4.00	3.16 YES
L0000383	0	0.25510E-02	481564.9	3774130.1	372.7	3.40	4.00	3.16 YES
L0000384	0	0.25510E-02	481573.5	3774130.7	372.7	3.40	4.00	3.16 YES
L0000385	0	0.25510E-02	481582.1	3774131.3	372.8	3.40	4.00	3.16 YES
L0000386	0	0.25510E-02	481590.7	3774131.9	372.9	3.40	4.00	3.16 YES
L0000387	0	0.25510E-02	481599.2	3774132.5	372.9	3.40	4.00	3.16 YES

```
 L0000388         0   0.25510E-02  481607.8 3774133.1   373.0     3.40     4.00
3.16     YES
 L0000389         0   0.25510E-02  481616.4 3774133.8   373.2     3.40     4.00
3.16     YES
 L0000390         0   0.25510E-02  481624.9 3774134.4   373.4     3.40     4.00
3.16     YES
 L0000391         0   0.25510E-02  481633.5 3774135.0   373.5     3.40     4.00
3.16     YES
 L0000392         0   0.25510E-02  481642.1 3774135.6   373.6     3.40     4.00
3.16     YES
 L0000393         0   0.58824E-01  479775.6 3774060.1   353.4     3.40     4.00
3.16     YES
 L0000394         0   0.58824E-01  479775.4 3774068.7   353.5     3.40     4.00
3.16     YES
 L0000395         0   0.58824E-01  479775.3 3774077.3   353.5     3.40     4.00
3.16     YES
 L0000396         0   0.58824E-01  479775.1 3774085.9   353.6     3.40     4.00
3.16     YES
 L0000397         0   0.58824E-01  479774.9 3774094.5   353.7     3.40     4.00
3.16     YES
 L0000398         0   0.58824E-01  479767.9 3774096.2   353.7     3.40     4.00
3.16     YES
 L0000399         0   0.58824E-01  479759.3 3774096.4   353.7     3.40     4.00
3.16     YES
 L0000400         0   0.58824E-01  479750.7 3774096.7   353.7     3.40     4.00
3.16     YES
```



```
                                                *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000401         0   0.58824E-01  479744.0 3774094.9   353.7     3.40     4.00
3.16     YES
 L0000402         0   0.58824E-01  479744.0 3774086.3   353.7     3.40     4.00
3.16     YES
```

```
 L0000403         0   0.58824E-01  479752.6 3774086.4   353.6     3.40     4.00
3.16     YES
 L0000404         0   0.58824E-01  479761.2 3774086.6   353.6     3.40     4.00
3.16     YES
 L0000405         0   0.58824E-01  479763.6 3774080.4   353.5     3.40     4.00
3.16     YES
 L0000406         0   0.58824E-01  479762.0 3774073.4   353.4     3.40     4.00
3.16     YES
 L0000407         0   0.58824E-01  479753.4 3774073.6   353.4     3.40     4.00
3.16     YES
 L0000408         0   0.58824E-01  479745.2 3774073.4   353.5     3.40     4.00
3.16     YES
 L0000409         0   0.58824E-01  479745.2 3774064.8   353.4     3.40     4.00
3.16     YES
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


  TRUCKS     L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

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L0000030    , L0000031    , L0000032    ,

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L0000038    , L0000039    , L0000040    ,

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L0000046    , L0000047    , L0000048    ,

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L0000054    , L0000055    , L0000056    ,
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L0000158    , L0000159    , L0000160    ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                    SOURCE IDs
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L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 ,

L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 ,

L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 ,

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L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 ,

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L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,

L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,

L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 , L0000232 ,

L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 ,

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L0000310    , L0000311    , L0000312    ,

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L0000318    , L0000319    , L0000320    ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


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L0000334    , L0000335    , L0000336    ,

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L0000366    , L0000367    , L0000368    ,

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L0000382    , L0000383    , L0000384    ,
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L0000390    , L0000391    , L0000392    ,

  FORK       L0000393    , L0000394    , L0000395    , L0000396    , L0000397    ,
L0000398    , L0000399    , L0000400    ,

             L0000401    , L0000402    , L0000403    , L0000404    , L0000405    ,
L0000406    , L0000407    , L0000408    ,

             L0000409    ,

  IDLING     STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
STCK6       , STCK7       , STCK8       ,

             STCK9       ,

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L0000046    , L0000047    , L0000048    ,
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                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
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L0000198    , L0000199    , L0000200    ,

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L0000206    , L0000207    , L0000208    ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


             L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
L0000214    , L0000215    , L0000216    ,

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L0000222    , L0000223    , L0000224    ,

             L0000225    , L0000226    , L0000227    , L0000228    , L0000229    ,
L0000230    , L0000231    , L0000232    ,

             L0000233    , L0000234    , L0000235    , L0000236    , L0000237    ,
L0000238    , L0000239    , L0000240    ,

             L0000241    , L0000242    , L0000243    , L0000244    , L0000245    ,
L0000246    , L0000247    , L0000248    ,

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L0000254    , L0000255    , L0000256    ,

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L0000278    , L0000279    , L0000280    ,
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L0000361 , L0000362 , L0000363 , L0000364 , L0000365 ,
L0000366 , L0000367 , L0000368 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0000369 , L0000370 , L0000371 , L0000372 , L0000373 ,
L0000374 , L0000375 , L0000376 ,

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             L0000377    , L0000378    , L0000379    , L0000380    , L0000381    ,
L0000382    , L0000383    , L0000384    ,

             L0000385    , L0000386    , L0000387    , L0000388    , L0000389    ,
L0000390    , L0000391    , L0000392    ,

             STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
STCK6       , STCK7       , STCK8       ,

             STCK9       , L0000393    , L0000394    , L0000395    , L0000396    ,
L0000397    , L0000398    , L0000399    ,

             L0000400    , L0000401    , L0000402    , L0000403    , L0000404    ,
L0000405    , L0000406    , L0000407    ,

             L0000408    , L0000409    ,
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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                      SOURCE IDs
  --------   ---------                                      ----------


              2035210.   L0000001    , L0000002    , L0000003    , L0000004    ,
L0000005    , L0000006    , L0000007    ,
 L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

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L0000022    , L0000023    , L0000024    ,

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L0000110    , L0000111    , L0000112    ,

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L0000126    , L0000127    , L0000128    ,

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L0000134    , L0000135    , L0000136    ,

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L0000142    , L0000143    , L0000144    ,

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L0000150    , L0000151    , L0000152    ,

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L0000158    , L0000159    , L0000160    ,
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0000161 , L0000162 , L0000163 , L0000164 , L0000165 , L0000166 , L0000167 , L0000168 ,
		L0000169 , L0000170 , L0000171 , L0000172 , L0000173 , L0000174 , L0000175 , L0000176 ,
		L0000177 , L0000178 , L0000179 , L0000180 , L0000181 , L0000182 , L0000183 , L0000184 ,
		L0000185 , L0000186 , L0000187 , L0000188 , L0000189 , L0000190 , L0000191 , L0000192 ,
		L0000193 , L0000194 , L0000195 , L0000196 , L0000197 , L0000198 , L0000199 , L0000200 ,
		L0000201 , L0000202 , L0000203 , L0000204 , L0000205 , L0000206 , L0000207 , L0000208 ,
		L0000209 , L0000210 , L0000211 , L0000212 , L0000213 , L0000214 , L0000215 , L0000216 ,
		L0000217 , L0000218 , L0000219 , L0000220 , L0000221 , L0000222 , L0000223 , L0000224 ,
		L0000225 , L0000226 , L0000227 , L0000228 , L0000229 , L0000230 , L0000231 , L0000232 ,
		L0000233 , L0000234 , L0000235 , L0000236 , L0000237 , L0000238 , L0000239 , L0000240 ,
		L0000241 , L0000242 , L0000243 , L0000244 , L0000245 , L0000246 , L0000247 , L0000248 ,
		L0000249 , L0000250 , L0000251 , L0000252 , L0000253 , L0000254 , L0000255 , L0000256 ,
		L0000257 , L0000258 , L0000259 , L0000260 , L0000261 , L0000262 , L0000263 , L0000264 ,
		L0000265 , L0000266 , L0000267 , L0000268 , L0000269 , L0000270 , L0000271 , L0000272 ,

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             L0000273    , L0000274    , L0000275    , L0000276    , L0000277    ,
L0000278    , L0000279    , L0000280    ,

             L0000281    , L0000282    , L0000283    , L0000284    , L0000285    ,
L0000286    , L0000287    , L0000288    ,

             L0000289    , L0000290    , L0000291    , L0000292    , L0000293    ,
L0000294    , L0000295    , L0000296    ,

             L0000297    , L0000298    , L0000299    , L0000300    , L0000301    ,
L0000302    , L0000303    , L0000304    ,

             L0000305    , L0000306    , L0000307    , L0000308    , L0000309    ,
L0000310    , L0000311    , L0000312    ,

             L0000313    , L0000314    , L0000315    , L0000316    , L0000317    ,
L0000318    , L0000319    , L0000320    ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                     SOURCE IDs
  --------   ---------                                     ----------


             L0000321    , L0000322    , L0000323    , L0000324    , L0000325    ,
L0000326    , L0000327    , L0000328    ,

             L0000329    , L0000330    , L0000331    , L0000332    , L0000333    ,
L0000334    , L0000335    , L0000336    ,

             L0000337    , L0000338    , L0000339    , L0000340    , L0000341    ,
L0000342    , L0000343    , L0000344    ,

             L0000345    , L0000346    , L0000347    , L0000348    , L0000349    ,
L0000350    , L0000351    , L0000352    ,

             L0000353    , L0000354    , L0000355    , L0000356    , L0000357    ,
L0000358    , L0000359    , L0000360    ,

             L0000361    , L0000362    , L0000363    , L0000364    , L0000365    ,
L0000366    , L0000367    , L0000368    ,
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             L0000369    , L0000370    , L0000371    , L0000372    , L0000373    ,
L0000374    , L0000375    , L0000376    ,

             L0000377    , L0000378    , L0000379    , L0000380    , L0000381    ,
L0000382    , L0000383    , L0000384    ,

             L0000385    , L0000386    , L0000387    , L0000388    , L0000389    ,
L0000390    , L0000391    , L0000392    ,

             STCK1       , STCK2       , STCK3       , STCK4       , STCK5       ,
STCK6       , STCK7       , STCK8       ,

             STCK9       , L0000393    , L0000394    , L0000395    , L0000396    ,
L0000397    , L0000398    , L0000399    ,

             L0000400    , L0000401    , L0000402    , L0000403    , L0000404    ,
L0000405    , L0000406    , L0000407    ,

             L0000408    , L0000409    ,
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                                          *** DIRECTION SPECIFIC BUILDING DIMENSIONS
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 SOURCE ID: STCK1
  IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
  YADJ
    1   13.0,   77.9,   87.1,  -75.5,  -35.7,      2   13.0,   79.1,   96.3,  -74.3,
 -45.1,
    3   13.0,   87.5,  102.5,  -70.9,  -48.4,      4   13.0,   93.2,  105.7,  -65.3,
 -50.3,
    5   13.0,   96.0,  105.6,  -57.7,  -50.6,      6   13.0,   95.9,  102.3,  -48.4,
 -49.4,
    7   13.0,   93.0,   95.9,  -37.6,  -46.7,      8   13.0,   87.1,   86.6,  -25.7,
 -42.5,
    9   13.0,   78.7,   75.3,  -13.0,  -37.1,     10   13.0,   87.1,   77.9,   -3.3,
 -31.9,
   11   13.0,   96.3,   79.1,    5.6,  -26.2,     12   13.0,  102.5,   87.5,    4.7,
 -19.6,
   13   13.0,  105.7,   93.2,    3.7,  -12.5,     14   13.0,  105.6,   96.0,    2.6,
  -4.9,
   15   13.0,  102.3,   95.9,    1.4,    2.7,     16   13.0,   95.9,   93.0,    0.2,
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 10.3,
  17   13.0,   86.6,   87.1,   -1.0,   17.6,     18   13.0,   75.3,   78.7,   -2.2,
 24.7,
  19   13.0,   77.9,   87.1,  -11.7,   35.7,     20   13.0,   79.1,   96.3,  -22.0,
 45.1,
  21   13.0,   87.5,  102.5,  -31.7,   48.4,     22   13.0,   93.2,  105.7,  -40.4,
 50.3,
  23   13.0,   96.0,  105.6,  -47.9,   50.6,     24   13.0,   95.9,  102.3,  -53.9,
 49.4,
  25   13.0,   93.0,   95.9,  -58.3,   46.7,     26   13.0,   87.1,   86.6,  -60.9,
 42.5,
  27   13.0,   78.7,   75.3,  -62.3,   37.1,     28   13.0,   87.1,   77.9,  -74.6,
 31.9,
  29   13.0,   96.3,   79.1,  -84.7,   26.2,     30   13.0,  102.5,   87.5,  -92.2,
 19.6,
  31   13.0,  105.7,   93.2,  -96.9,   12.5,     32   13.0,  105.6,   96.0,  -98.6,
  4.9,
  33   13.0,  102.3,   95.9,  -97.4,   -2.7,     34   13.0,   95.9,   93.0,  -93.2,
-10.3,
  35   13.0,   86.6,   87.1,  -86.1,  -17.6,     36   13.0,   75.3,   78.7,  -76.5,
-24.7,


SOURCE ID: STCK2
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
 YADJ
   1   13.0,   77.9,   87.1,  -71.0,  -34.9,      2   13.0,   79.1,   96.3,  -70.0,
-43.6,
   3   13.0,   87.5,  102.5,  -66.9,  -46.2,      4   13.0,   93.2,  105.7,  -61.8,
-47.4,
   5   13.0,   96.0,  105.6,  -54.8,  -47.1,      6   13.0,   95.9,  102.3,  -46.1,
-45.4,
   7   13.0,   93.0,   95.9,  -36.1,  -42.4,      8   13.0,   87.1,   86.6,  -24.9,
-38.0,
   9   13.0,   78.7,   75.3,  -13.0,  -32.5,     10   13.0,   87.1,   77.9,   -4.1,
-27.4,
  11   13.0,   96.3,   79.1,    4.0,  -21.9,     12   13.0,  102.5,   87.5,    2.4,
-15.7,
  13   13.0,  105.7,   93.2,    0.8,   -9.0,     14   13.0,  105.6,   96.0,   -0.9,
 -2.0,
  15   13.0,  102.3,   95.9,   -2.5,    5.0,     16   13.0,   95.9,   93.0,   -4.1,
 11.9,
  17   13.0,   86.6,   87.1,   -5.5,   18.4,     18   13.0,   75.3,   78.7,   -6.8,
 24.7,
  19   13.0,   77.9,   87.1,  -16.2,   34.9,     20   13.0,   79.1,   96.3,  -26.3,
 43.6,
  21   13.0,   87.5,  102.5,  -35.6,   46.2,     22   13.0,   93.2,  105.7,  -43.9,
 47.4,
  23   13.0,   96.0,  105.6,  -50.8,   47.1,     24   13.0,   95.9,  102.3,  -56.2,
 45.4,
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  25   13.0,   93.0,   95.9,  -59.8,   42.4,     26   13.0,   87.1,   86.6,  -61.7,
 38.0,
  27   13.0,   78.7,   75.3,  -62.3,   32.5,     28   13.0,   87.1,   77.9,  -73.8,
 27.4,
  29   13.0,   96.3,   79.1,  -83.1,   21.9,     30   13.0,  102.5,   87.5,  -89.9,
 15.7,
  31   13.0,  105.7,   93.2,  -93.9,    9.0,     32   13.0,  105.6,   96.0,  -95.1,
  2.0,
  33   13.0,  102.3,   95.9,  -93.4,   -5.0,     34   13.0,   95.9,   93.0,  -88.9,
-11.9,
  35   13.0,   86.6,   87.1,  -81.6,  -18.4,     36   13.0,   75.3,   78.7,  -71.9,
-24.7,


SOURCE ID: STCK3
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
 YADJ
   1   13.0,   77.9,   87.1,  -66.5,  -34.1,      2   13.0,   79.1,   96.3,  -65.7,
-42.0,
   3   13.0,   87.5,  102.5,  -63.0,  -43.9,      4   13.0,   93.2,  105.7,  -58.3,
-44.4,
   5   13.0,   96.0,  105.6,  -51.9,  -43.6,      6   13.0,   95.9,  102.3,  -43.8,
-41.5,
   7   13.0,   93.0,   95.9,  -34.5,  -38.1,      8   13.0,   87.1,   86.6,  -24.1,
-33.5,
   9   13.0,   78.7,   75.3,  -13.0,  -28.0,     10   13.0,   87.1,   77.9,   -4.8,
-22.9,
  11   13.0,   96.3,   79.1,    2.4,  -17.6,     12   13.0,  102.5,   87.5,    0.1,
-11.7,
  13   13.0,  105.7,   93.2,   -2.1,   -5.5,     14   13.0,  105.6,   96.0,   -4.4,
  0.9,
  15   13.0,  102.3,   95.9,   -6.5,    7.3,     16   13.0,   95.9,   93.0,   -8.4,
 13.5,
  17   13.0,   86.6,   87.1,  -10.0,   19.2,     18   13.0,   75.3,   78.7,  -11.4,
 24.7,
  19   13.0,   77.9,   87.1,  -20.7,   34.1,     20   13.0,   79.1,   96.3,  -30.6,
 42.0,
  21   13.0,   87.5,  102.5,  -39.6,   43.9,     22   13.0,   93.2,  105.7,  -47.4,
 44.4,
  23   13.0,   96.0,  105.6,  -53.7,   43.6,     24   13.0,   95.9,  102.3,  -58.5,
 41.5,
  25   13.0,   93.0,   95.9,  -61.4,   38.1,     26   13.0,   87.1,   86.6,  -62.5,
 33.5,
  27   13.0,   78.7,   75.3,  -62.3,   28.0,     28   13.0,   87.1,   77.9,  -73.0,
 22.9,
  29   13.0,   96.3,   79.1,  -81.6,   17.6,     30   13.0,  102.5,   87.5,  -87.6,
 11.7,
  31   13.0,  105.7,   93.2,  -91.0,    5.5,     32   13.0,  105.6,   96.0,  -91.6,
 -0.9,
  33   13.0,  102.3,   95.9,  -89.5,   -7.3,     34   13.0,   95.9,   93.0,  -84.6,
```

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 -13.5,
   35   13.0,   86.6,   87.1,  -77.1,  -19.2,     36   13.0,   75.3,   78.7,  -67.3,
 -24.7,


 SOURCE ID: STCK4
  IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
  YADJ
    1   13.0,   77.9,   87.1,  -58.5,  -32.7,      2   13.0,   79.1,   96.3,  -58.1,
 -39.2,
    3   13.0,   87.5,  102.5,  -56.0,  -39.8,      4   13.0,   93.2,  105.7,  -52.1,
 -39.2,
    5   13.0,   96.0,  105.6,  -46.7,  -37.4,      6   13.0,   95.9,  102.3,  -39.8,
 -34.5,
    7   13.0,   93.0,   95.9,  -31.8,  -30.5,      8   13.0,   87.1,   86.6,  -22.7,
 -25.6,
    9   13.0,   78.7,   75.3,  -13.0,  -19.9,     10   13.0,   87.1,   77.9,   -6.2,
 -15.0,
   11   13.0,   96.3,   79.1,   -0.3,  -10.0,     12   13.0,  102.5,   87.5,   -3.9,
  -4.7,
   13   13.0,  105.7,   93.2,   -7.3,    0.7,     14   13.0,  105.6,   96.0,  -10.6,
   6.1,
   15   13.0,  102.3,   95.9,  -13.5,   11.3,     16   13.0,   95.9,   93.0,  -16.0,
  16.2,
   17   13.0,   86.6,   87.1,  -18.0,   20.6,     18   13.0,   75.3,   78.7,  -19.4,
  24.7,
   19   13.0,   77.9,   87.1,  -28.6,   32.7,     20   13.0,   79.1,   96.3,  -38.2,
  39.2,
   21   13.0,   87.5,  102.5,  -46.6,   39.8,     22   13.0,   93.2,  105.7,  -53.5,
  39.2,
   23   13.0,   96.0,  105.6,  -58.9,   37.4,     24   13.0,   95.9,  102.3,  -62.5,
  34.5,
   25   13.0,   93.0,   95.9,  -64.2,   30.5,     26   13.0,   87.1,   86.6,  -63.9,
  25.6,
   27   13.0,   78.7,   75.3,  -62.3,   19.9,     28   13.0,   87.1,   77.9,  -71.6,
  15.0,
   29   13.0,   96.3,   79.1,  -78.8,   10.0,     30   13.0,  102.5,   87.5,  -83.6,
   4.7,
   31   13.0,  105.7,   93.2,  -85.8,   -0.7,     32   13.0,  105.6,   96.0,  -85.5,
  -6.1,
   33   13.0,  102.3,   95.9,  -82.5,  -11.3,     34   13.0,   95.9,   93.0,  -77.0,
 -16.2,
   35   13.0,   86.6,   87.1,  -69.2,  -20.6,     36   13.0,   75.3,   78.7,  -59.3,
 -24.7,

↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: STCK5

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	13.0,	77.9,	87.1,	-54.0,	-31.9,	2	13.0,	79.1,	96.3,	-53.8,	-37.7,
3	13.0,	87.5,	102.5,	-52.0,	-37.6,	4	13.0,	93.2,	105.7,	-48.6,	-36.3,
5	13.0,	96.0,	105.6,	-43.7,	-33.9,	6	13.0,	95.9,	102.3,	-37.5,	-30.6,
7	13.0,	93.0,	95.9,	-30.2,	-26.2,	8	13.0,	87.1,	86.6,	-21.9,	-21.1,
9	13.0,	78.7,	75.3,	-13.0,	-15.3,	10	13.0,	87.1,	77.9,	-7.0,	-10.5,
11	13.0,	96.3,	79.1,	-1.9,	-5.7,	12	13.0,	102.5,	87.5,	-6.2,	-0.8,
13	13.0,	105.7,	93.2,	-10.3,	4.2,	14	13.0,	105.6,	96.0,	-14.1,	9.1,
15	13.0,	102.3,	95.9,	-17.4,	13.6,	16	13.0,	95.9,	93.0,	-20.2,	17.8,
17	13.0,	86.6,	87.1,	-22.5,	21.4,	18	13.0,	75.3,	78.7,	-24.0,	24.7,
19	13.0,	77.9,	87.1,	-33.1,	31.9,	20	13.0,	79.1,	96.3,	-42.4,	37.7,
21	13.0,	87.5,	102.5,	-50.5,	37.6,	22	13.0,	93.2,	105.7,	-57.0,	36.3,
23	13.0,	96.0,	105.6,	-61.8,	33.9,	24	13.0,	95.9,	102.3,	-64.8,	30.6,
25	13.0,	93.0,	95.9,	-65.7,	26.2,	26	13.0,	87.1,	86.6,	-64.7,	21.1,
27	13.0,	78.7,	75.3,	-62.3,	15.3,	28	13.0,	87.1,	77.9,	-70.9,	10.5,
29	13.0,	96.3,	79.1,	-77.3,	5.7,	30	13.0,	102.5,	87.5,	-81.3,	0.8,
31	13.0,	105.7,	93.2,	-82.9,	-4.2,	32	13.0,	105.6,	96.0,	-82.0,	-9.1,
33	13.0,	102.3,	95.9,	-78.5,	-13.6,	34	13.0,	95.9,	93.0,	-72.7,	-17.8,
35	13.0,	86.6,	87.1,	-64.7,	-21.4,	36	13.0,	75.3,	78.7,	-54.7,	-24.7,

SOURCE ID: STCK6

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ

```
 YADJ
   1   13.0,   77.9,   87.1,  -49.5,  -31.1,      2   13.0,   79.1,   96.3,  -49.5,
-36.1,
   3   13.0,   87.5,  102.5,  -48.1,  -35.3,      4   13.0,   93.2,  105.7,  -45.1,
-33.4,
   5   13.0,   96.0,  105.6,  -40.8,  -30.4,      6   13.0,   95.9,  102.3,  -35.2,
-26.6,
   7   13.0,   93.0,   95.9,  -28.6,  -21.9,      8   13.0,   87.1,   86.6,  -21.1,
-16.6,
   9   13.0,   78.7,   75.3,  -13.0,  -10.8,     10   13.0,   87.1,   77.9,   -7.8,
 -6.0,
  11   13.0,   96.3,   79.1,   -3.4,   -1.4,     12   13.0,  102.5,   87.5,   -8.5,
  3.2,
  13   13.0,  105.7,   93.2,  -13.2,    7.7,     14   13.0,  105.6,   96.0,  -17.6,
 12.0,
  15   13.0,  102.3,   95.9,  -21.4,   15.9,     16   13.0,   95.9,   93.0,  -24.6,
 19.3,
  17   13.0,   86.6,   87.1,  -27.0,   22.2,     18   13.0,   75.3,   78.7,  -28.6,
 24.7,
  19   13.0,   77.9,   87.1,  -37.6,   31.1,     20   13.0,   79.1,   96.3,  -46.8,
 36.1,
  21   13.0,   87.5,  102.5,  -54.5,   35.3,     22   13.0,   93.2,  105.7,  -60.5,
 33.4,
  23   13.0,   96.0,  105.6,  -64.8,   30.4,     24   13.0,   95.9,  102.3,  -67.1,
 26.6,
  25   13.0,   93.0,   95.9,  -67.3,   21.9,     26   13.0,   87.1,   86.6,  -65.5,
 16.6,
  27   13.0,   78.7,   75.3,  -62.3,   10.8,     28   13.0,   87.1,   77.9,  -70.1,
  6.0,
  29   13.0,   96.3,   79.1,  -75.7,    1.4,     30   13.0,  102.5,   87.5,  -79.0,
 -3.2,
  31   13.0,  105.7,   93.2,  -80.0,   -7.7,     32   13.0,  105.6,   96.0,  -78.5,
-12.0,
  33   13.0,  102.3,   95.9,  -74.6,  -15.9,     34   13.0,   95.9,   93.0,  -68.4,
-19.3,
  35   13.0,   86.6,   87.1,  -60.2,  -22.2,     36   13.0,   75.3,   78.7,  -50.1,
-24.7,


SOURCE ID: STCK7
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
 YADJ
   1   13.0,   77.9,   87.1,  -45.0,  -30.3,      2   13.0,   79.1,   96.3,  -45.2,
-34.6,
   3   13.0,   87.5,  102.5,  -44.1,  -33.0,      4   13.0,   93.2,  105.7,  -41.6,
-30.4,
   5   13.0,   96.0,  105.6,  -37.9,  -26.9,      6   13.0,   95.9,  102.3,  -33.0,
-22.6,
   7   13.0,   93.0,   95.9,  -27.1,  -17.6,      8   13.0,   87.1,   86.6,  -20.3,
-12.1,
```

```
   9   13.0,   78.7,   75.3,  -13.0,   -6.2,     10   13.0,   87.1,   77.9,   -8.6,
 -1.5,
  11   13.0,   96.3,   79.1,   -5.0,    2.9,     12   13.0,  102.5,   87.5,  -10.7,
  7.2,
  13   13.0,  105.7,   93.2,  -16.2,   11.2,     14   13.0,  105.6,   96.0,  -21.1,
 14.9,
  15   13.0,  102.3,   95.9,  -25.3,   18.2,     16   13.0,   95.9,   93.0,  -28.8,
 20.9,
  17   13.0,   86.6,   87.1,  -31.5,   23.0,     18   13.0,   75.3,   78.7,  -33.1,
 24.7,
  19   13.0,   77.9,   87.1,  -42.1,   30.3,     20   13.0,   79.1,   96.3,  -51.0,
 34.6,
  21   13.0,   87.5,  102.5,  -58.4,   33.0,     22   13.0,   93.2,  105.7,  -64.0,
 30.4,
  23   13.0,   96.0,  105.6,  -67.7,   26.9,     24   13.0,   95.9,  102.3,  -69.3,
 22.6,
  25   13.0,   93.0,   95.9,  -68.8,   17.6,     26   13.0,   87.1,   86.6,  -66.3,
 12.1,
  27   13.0,   78.7,   75.3,  -62.3,    6.2,     28   13.0,   87.1,   77.9,  -69.3,
  1.5,
  29   13.0,   96.3,   79.1,  -74.1,   -2.9,     30   13.0,  102.5,   87.5,  -76.7,
 -7.2,
  31   13.0,  105.7,   93.2,  -77.0,  -11.2,     32   13.0,  105.6,   96.0,  -75.0,
-14.9,
  33   13.0,  102.3,   95.9,  -70.6,  -18.2,     34   13.0,   95.9,   93.0,  -64.1,
-20.9,
  35   13.0,   86.6,   87.1,  -55.7,  -23.0,     36   13.0,   75.3,   78.7,  -45.5,
-24.7,


SOURCE ID: STCK8
 IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
 YADJ
   1   13.0,   77.9,   87.1,  -40.5,  -29.5,      2   13.0,   79.1,   96.3,  -40.9,
-33.0,
   3   13.0,   87.5,  102.5,  -40.1,  -30.7,      4   13.0,   93.2,  105.7,  -38.1,
-27.5,
   5   13.0,   96.0,  105.6,  -34.9,  -23.4,      6   13.0,   95.9,  102.3,  -30.7,
-18.7,
   7   13.0,   93.0,   95.9,  -25.5,  -13.3,      8   13.0,   87.1,   86.6,  -19.5,
 -7.6,
   9   13.0,   78.7,   75.3,  -13.0,   -1.6,     10   13.0,   87.1,   77.9,   -9.4,
  3.0,
  11   13.0,   96.3,   79.1,   -6.6,    7.2,     12   13.0,  102.5,   87.5,  -13.0,
 11.1,
  13   13.0,  105.7,   93.2,  -19.1,   14.7,     14   13.0,  105.6,   96.0,  -24.6,
 17.9,
  15   13.0,  102.3,   95.9,  -29.3,   20.5,     16   13.0,   95.9,   93.0,  -33.1,
 22.5,
  17   13.0,   86.6,   87.1,  -36.0,   23.8,     18   13.0,   75.3,   78.7,  -37.7,
```

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 24.7,
  19   13.0,   77.9,   87.1,  -46.6,   29.5,     20   13.0,   79.1,   96.3,  -55.3,
 33.0,
  21   13.0,   87.5,  102.5,  -62.4,   30.7,     22   13.0,   93.2,  105.7,  -67.6,
 27.5,
  23   13.0,   96.0,  105.6,  -70.7,   23.4,     24   13.0,   95.9,  102.3,  -71.6,
 18.7,
  25   13.0,   93.0,   95.9,  -70.4,   13.3,     26   13.0,   87.1,   86.6,  -67.1,
  7.6,
  27   13.0,   78.7,   75.3,  -62.3,    1.6,     28   13.0,   87.1,   77.9,  -68.5,
 -3.0,
  29   13.0,   96.3,   79.1,  -72.6,   -7.2,     30   13.0,  102.5,   87.5,  -74.5,
-11.1,
  31   13.0,  105.7,   93.2,  -74.1,  -14.7,     32   13.0,  105.6,   96.0,  -71.4,
-17.9,
  33   13.0,  102.3,   95.9,  -66.6,  -20.5,     34   13.0,   95.9,   93.0,  -59.8,
-22.5,
  35   13.0,   86.6,   87.1,  -51.2,  -23.8,     36   13.0,   75.3,   78.7,  -41.0,
-24.7,

↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DIRECTION SPECIFIC BUILDING DIMENSIONS
***


 SOURCE ID: STCK9
  IFV    BH      BW      BL     XADJ    YADJ     IFV    BH      BW      BL     XADJ
  YADJ
    1   13.0,   77.9,   87.1,  -36.0,  -28.7,      2   13.0,   79.1,   96.3,  -36.7,
-31.4,
    3   13.0,   87.5,  102.5,  -36.2,  -28.4,      4   13.0,   93.2,  105.7,  -34.6,
-24.6,
    5   13.0,   96.0,  105.6,  -32.0,  -19.9,      6   13.0,   95.9,  102.3,  -28.4,
-14.7,
    7   13.0,   93.0,   95.9,  -23.9,   -9.0,      8   13.0,   87.1,   86.6,  -18.8,
 -3.1,
    9   13.0,   78.7,   75.3,  -13.0,    2.9,     10   13.0,   87.1,   77.9,  -10.2,
  7.5,
   11   13.0,   96.3,   79.1,   -8.1,   11.5,     12   13.0,  102.5,   87.5,  -15.3,
 15.1,
   13   13.0,  105.7,   93.2,  -22.0,   18.2,     14   13.0,  105.6,   96.0,  -28.1,
 20.8,
   15   13.0,  102.3,   95.9,  -33.3,   22.8,     16   13.0,   95.9,   93.0,  -37.4,
```

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  24.0,
   17   13.0,   86.6,   87.1,  -40.5,   24.6,     18   13.0,   75.3,   78.7,  -42.3,
  24.7,
   19   13.0,   77.9,   87.1,  -51.1,   28.7,     20   13.0,   79.1,   96.3,  -59.6,
  31.4,
   21   13.0,   87.5,  102.5,  -66.4,   28.4,     22   13.0,   93.2,  105.7,  -71.1,
  24.6,
   23   13.0,   96.0,  105.6,  -73.6,   19.9,     24   13.0,   95.9,  102.3,  -73.9,
  14.7,
   25   13.0,   93.0,   95.9,  -72.0,    9.0,     26   13.0,   87.1,   86.6,  -67.9,
   3.1,
   27   13.0,   78.7,   75.3,  -62.3,   -2.9,     28   13.0,   87.1,   77.9,  -67.7,
  -7.5,
   29   13.0,   96.3,   79.1,  -71.0,  -11.5,     30   13.0,  102.5,   87.5,  -72.2,
 -15.1,
   31   13.0,  105.7,   93.2,  -71.1,  -18.2,     32   13.0,  105.6,   96.0,  -67.9,
 -20.8,
   33   13.0,  102.3,   95.9,  -62.7,  -22.8,     34   13.0,   95.9,   93.0,  -55.5,
 -24.0,
   35   13.0,   86.6,   87.1,  -46.7,  -24.6,     36   13.0,   75.3,   78.7,  -36.4,
 -24.7,

 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                        *** X-COORDINATES OF GRID ***
                                                  (METERS)

       479159.3,  479197.5,  479235.8,  479274.1,  479312.3,  479350.6,  479388.8,
479427.1,  479465.4,  479503.6,
       479541.9,  479580.1,  479618.4,  479656.7,  479694.9,  479733.2,  479771.4,
479809.7,  479848.0,  479886.2,
       479924.5,

                                        *** Y-COORDINATES OF GRID ***
                                                  (METERS)

      3774215.8, 3774245.5, 3774275.1, 3774304.8, 3774334.5, 3774364.1, 3774393.8,
3774423.4, 3774453.1, 3774482.8,
      3774512.4, 3774542.1, 3774571.7, 3774601.4, 3774631.1, 3774660.7, 3774690.4,
```

3774720.0, 3774749.7, 3774779.4,
3774809.0,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32	479350.58	479388.84	479427.10	479465.36
3774809.03	350.60	351.10	351.50	351.80	352.20	352.70	353.10	353.50	353.80
3774779.37	350.60	351.00	351.50	351.60	352.00	352.50	352.70	353.10	353.40
3774749.71	350.80	351.20	351.30	351.70	352.00	352.40	352.70	353.00	353.40
3774720.05	350.50	350.90	351.20	351.50	351.80	352.20	352.10	352.50	353.00
3774690.39	350.30	350.70	351.00	351.20	351.50	352.00	351.90	352.80	353.30
3774660.73	350.20	350.40	350.60	351.10	351.60	351.90	351.70	352.50	352.90
3774631.07	350.10	350.40	350.70	351.00	351.30	351.50	351.50	352.10	352.50
3774601.41	350.10	350.50	351.00	351.30	351.40	351.90	351.60	352.20	352.60
3774571.75	350.30	350.50	350.90	351.20	351.50	352.00	351.80	352.40	352.80
3774542.09	350.30	350.50	350.90	351.30	351.70	352.10	351.90	352.60	352.90
3774512.43	350.10	350.40	350.80	351.30	351.60	352.20	352.20	352.40	352.70
3774482.77	350.10	350.40	350.70	351.10	351.40	352.00	352.40	352.50	352.90
3774453.11	350.10	350.40	350.60	351.00	351.20	352.00	352.40	352.70	353.00
3774423.45	350.20	350.40	350.60	351.00	351.30	351.90	352.20	352.50	352.80
3774393.79	350.10	350.50	350.70	351.00	351.30				

```
  351.80       352.00       352.40       352.70
  3774364.13 |        350.10       350.40       350.70       351.00       351.30
  351.80       352.10       352.40       352.70
  3774334.47 |        350.00       350.30       350.50       350.80       351.20
  351.80       352.00       352.30       352.40
  3774304.81 |        350.00       350.20       350.50       350.80       351.10
  351.50       351.80       352.00       352.10
  3774275.15 |        350.00       350.20       350.60       350.90       351.10
  351.80       352.00       352.20       352.40
  3774245.49 |        349.80       350.00       350.40       350.70       351.00
  351.50       351.80       352.10       352.40
  3774215.83 |        349.70       350.00       350.40       350.70       351.00
  351.40       351.70       352.00       352.40
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     479503.62    479541.88    479580.14    479618.40    479656.66
479694.92    479733.18    479771.44    479809.70
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |        354.00       354.30       354.80       355.10       355.40
  355.70       355.90       356.30       356.70
  3774779.37 |        353.80       354.10       354.70       354.90       355.20
  355.40       355.80       356.40       357.20
  3774749.71 |        353.90       353.90       354.40       354.80       355.20
  355.50       355.60       356.40       356.70
  3774720.05 |        353.50       353.70       354.10       354.50       354.90
  355.20       355.60       356.50       356.70
  3774690.39 |        353.70       353.60       354.20       354.60       355.00
  355.10       355.60       356.10       356.50
  3774660.73 |        353.40       353.40       354.00       354.30       354.80
  355.00       355.50       355.90       356.30
  3774631.07 |        353.00       353.20       353.80       354.20       354.60
  354.80       355.30       355.90       356.10
  3774601.41 |        353.00       353.30       353.80       354.20       354.80
  354.80       355.20       356.10       356.30
  3774571.75 |        353.30       353.40       353.90       354.30       354.80
  354.80       355.10       356.00       356.20
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  3774542.09 |        353.30       353.50       354.10       354.40       354.70
  354.60       355.00       355.90       356.20
  3774512.43 |        353.20       353.60       353.90       354.20       354.30
  354.50       354.90       355.80       356.10
  3774482.77 |        353.30       353.70       354.10       354.40       354.50
  354.60       355.00       355.70       356.00
  3774453.11 |        353.30       353.60       354.00       354.30       354.60
  354.90       355.20       355.60       355.80
  3774423.45 |        353.20       353.50       353.80       354.00       354.40
  354.70       355.00       355.30       355.60
  3774393.79 |        353.00       353.30       353.80       354.10       354.40
  354.60       355.00       355.20       355.80
  3774364.13 |        352.90       353.10       353.50       353.70       354.00
  354.20       354.30       354.80       355.70
  3774334.47 |        352.70       352.90       353.50       353.60       354.00
  354.10       354.00       354.40       355.60
  3774304.81 |        352.40       352.60       353.00       353.30       353.50
  353.70       353.90       354.00       355.10
  3774275.15 |        352.60       352.80       353.30       353.40       353.70
  354.00       354.50       354.40       355.30
  3774245.49 |        352.90       353.00       353.20       353.70       353.80
  354.30       354.30       354.70       355.00
  3774215.83 |        352.80       353.00       353.30       353.60       354.00
  354.30       354.60       355.00       355.30
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     479847.96    479886.22    479924.48
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |        357.00       357.40       357.80
  3774779.37 |        357.10       357.50       357.80
  3774749.71 |        357.00       357.50       357.80
  3774720.05 |        357.20       357.50       357.70
  3774690.39 |        356.90       357.40       357.50
  3774660.73 |        356.60       356.90       357.40
  3774631.07 |        356.50       356.80       357.20
  3774601.41 |        356.60       356.80       357.10
```

3774571.75 |	356.50	356.80	357.10
3774542.09 |	356.50	356.80	357.10
3774512.43 |	356.40	356.70	357.00
3774482.77 |	356.20	356.50	356.90
3774453.11 |	356.10	356.30	356.80
3774423.45 |	355.80	356.00	356.30
3774393.79 |	355.80	356.10	356.30
3774364.13 |	355.80	355.90	356.20
3774334.47 |	355.80	355.80	356.10
3774304.81 |	355.70	355.60	356.10
3774275.15 |	355.30	355.50	356.10
3774245.49 |	355.60	355.70	355.20
3774215.83 |	354.60	355.70	356.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32	479350.58	479388.84	479427.10	479465.36
3774809.03	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774779.37	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774749.71	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774720.05	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774690.39	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774660.73	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774631.07	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774601.41	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30
3774571.75	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30	2401.30

3774542.09 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774512.43 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774482.77 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774453.11 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774423.45 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774393.79 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774364.13 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774334.47 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774304.81 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774275.15 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774245.49 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774215.83 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 479503.62 479541.88 479580.14 479618.40 479656.66
479694.92 479733.18 479771.44 479809.70
- -

3774809.03 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774779.37 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774749.71 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774720.05 | 2401.30 2401.30 2401.30 2401.30 2401.30

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 2401.30      2401.30      2401.30      2401.30
  3774690.39 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774660.73 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774631.07 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774601.41 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774571.75 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774542.09 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774512.43 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774482.77 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774453.11 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774423.45 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774393.79 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774364.13 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774334.47 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774304.81 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774275.15 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774245.49 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774215.83 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE: GRIDCART
***

                                                 * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     479847.96    479886.22    479924.48
```

- -

3774809.03	2401.30	2401.30	2401.30
3774779.37	2401.30	2401.30	2401.30
3774749.71	2401.30	2401.30	2401.30
3774720.05	2401.30	2401.30	2401.30
3774690.39	2401.30	2401.30	2401.30
3774660.73	2401.30	2401.30	2401.30
3774631.07	2401.30	2401.30	2401.30
3774601.41	2401.30	2401.30	2401.30
3774571.75	2401.30	2401.30	2401.30
3774542.09	2401.30	2401.30	2401.30
3774512.43	2401.30	2401.30	2401.30
3774482.77	2401.30	2401.30	2401.30
3774453.11	2401.30	2401.30	2401.30
3774423.45	2401.30	2401.30	2401.30
3774393.79	2401.30	2401.30	2401.30
3774364.13	2401.30	2401.30	2401.30
3774334.47	2401.30	2401.30	2401.30
3774304.81	2401.30	2401.30	2401.30
3774275.15	2401.30	2401.30	2401.30
3774245.49	2401.30	2401.30	2401.30
3774215.83	2401.30	2401.30	2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

479959.7, 480038.8, 480117.8, 480196.9, 480276.0, 480355.0, 480434.1, 480513.2, 480592.2, 480671.3,
480750.4, 480829.5, 480908.5, 480987.6, 481066.7, 481145.7, 481224.8, 481303.9, 481383.0, 481462.0,
481541.1,

*** Y-COORDINATES OF GRID ***
(METERS)

3774401.9, 3774421.2, 3774440.5, 3774459.8, 3774479.1, 3774498.4, 3774517.7,

3774537.1, 3774556.4, 3774575.7,
3774595.0, 3774614.3, 3774633.6, 3774652.9, 3774672.2, 3774691.5, 3774710.8,
3774730.2, 3774749.5, 3774768.8,
3774788.1,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 479959.69	480038.76	480117.83	480196.90	480275.97	480355.04	480434.11	480513.18	480592.25
3774788.09	358.20	359.00	359.70	360.30	360.90	361.60	362.50	363.30	364.00
3774768.78	358.40	358.90	359.90	360.40	360.80	361.50	362.40	363.30	363.90
3774749.47	358.20	358.80	359.90	360.60	361.10	361.70	362.40	363.30	363.90
3774730.16	358.20	358.70	359.20	360.10	360.90	361.70	362.40	363.20	363.70
3774710.85	358.00	358.50	359.00	359.70	360.70	361.70	362.30	363.00	363.50
3774691.54	357.70	358.20	358.60	359.30	360.20	361.60	362.20	362.80	363.30
3774672.23	357.50	358.10	358.60	359.20	360.00	361.50	361.80	362.40	363.10
3774652.92	357.60	358.10	358.70	359.40	360.30	361.40	361.90	362.50	362.90
3774633.61	357.60	358.20	358.70	359.60	360.40	361.30	361.80	362.40	362.80
3774614.30	357.80	358.30	358.80	359.80	360.40	361.20	361.40	362.20	362.70
3774594.99	357.60	358.10	359.00	359.80	360.30	361.10	361.30	362.20	362.70
3774575.68	357.30	357.80	358.90	359.90	360.10	361.00	361.20	362.10	362.70
3774556.37	357.30	357.80	359.20	359.80	360.00	360.80	361.30	362.00	362.70
3774537.06	356.90	357.90	359.60	359.70	359.80				

```
  360.60       361.30       362.00       362.60
  3774517.75 |        356.80       357.70       359.70       359.50       359.60
  360.50       361.30       361.80       362.40
  3774498.44 |        357.00       357.50       359.60       359.40       359.20
  360.40       361.00       361.60       362.40
  3774479.13 |        357.10       357.50       359.70       359.50       359.20
  360.40       361.00       362.00       362.60
  3774459.82 |        357.10       357.40       359.50       359.40       359.10
  360.20       361.10       362.30       363.60
  3774440.51 |        357.10       357.50       359.20       359.20       359.00
  360.10       361.50       361.60       362.20
  3774421.20 |        356.90       357.30       358.80       358.90       359.00
  360.60       359.70       360.30       361.10
  3774401.89 |        356.30       357.00       358.40       358.50       359.40
  359.00       360.10       362.20       362.90
*** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     480671.32    480750.39    480829.46    480908.53    480987.60
481066.67    481145.74    481224.81    481303.88
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |        365.50       366.00       366.60       367.20       368.20
  369.60       370.10       371.10       372.10
  3774768.78 |        365.30       365.90       366.50       367.00       368.40
  369.20       369.90       371.10       372.20
  3774749.47 |        364.80       365.80       366.20       366.90       368.00
  368.80       369.80       371.00       372.10
  3774730.16 |        364.60       365.70       365.90       366.70       367.60
  368.60       369.60       370.90       371.70
  3774710.85 |        364.60       365.60       365.70       366.50       367.50
  368.40       369.40       370.90       371.70
  3774691.54 |        364.70       365.50       365.60       366.40       367.30
  368.20       369.30       370.80       371.50
  3774672.23 |        364.70       365.40       365.70       366.30       367.10
  368.10       369.20       370.50       371.30
  3774652.92 |        364.70       365.30       365.40       366.00       366.70
  368.00       369.10       370.40       371.20
```

3774633.61 | 364.70 365.20 365.50 366.20 366.80
368.00 369.00 370.40 371.20
3774614.30 | 364.70 365.10 365.50 366.10 366.70
367.90 368.80 370.00 370.90
3774594.99 | 364.70 365.00 365.40 365.80 366.60
367.80 368.60 369.80 370.50
3774575.68 | 364.60 364.90 365.10 365.60 366.20
367.70 368.40 369.50 370.50
3774556.37 | 364.60 364.80 365.30 365.90 366.50
367.60 368.20 369.50 370.30
3774537.06 | 364.50 364.80 365.50 366.00 366.80
367.50 368.10 369.20 370.30
3774517.75 | 364.50 364.70 365.20 365.70 366.50
367.40 367.90 368.90 370.20
3774498.44 | 364.50 364.60 365.00 365.60 366.40
367.30 367.90 369.50 370.00
3774479.13 | 364.50 364.60 364.80 365.20 366.00
367.20 367.80 369.70 369.90
3774459.82 | 364.30 364.70 364.90 365.50 366.10
367.20 367.70 369.60 369.90
3774440.51 | 363.50 364.80 365.00 365.50 366.30
367.40 367.70 369.00 369.70
3774421.20 | 361.80 364.70 363.90 365.20 366.40
367.50 367.60 368.60 369.60
3774401.89 | 363.40 364.80 364.30 364.10 364.50
365.60 367.70 368.30 369.10

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 481382.95	481462.02	481541.09
3774788.09	372.80	374.10	376.30
3774768.78	372.80	374.00	375.50
3774749.47	372.70	373.80	375.00
3774730.16	372.60	373.60	374.60
3774710.85	372.50	373.50	374.30
3774691.54	372.40	373.40	374.20

```
  3774672.23 |        372.20       373.20       374.10
  3774652.92 |        372.20       373.40       374.00
  3774633.61 |        372.20       373.10       373.80
  3774614.30 |        371.90       372.80       373.70
  3774594.99 |        371.60       372.50       373.70
  3774575.68 |        372.00       372.60       373.70
  3774556.37 |        372.00       372.50       373.50
  3774537.06 |        371.80       372.50       373.30
  3774517.75 |        371.50       372.30       373.30
  3774498.44 |        371.30       371.80       374.90
  3774479.13 |        370.90       371.90       374.30
  3774459.82 |        370.80       372.20       371.50
  3774440.51 |        370.90       372.60       370.30
  3774421.20 |        370.50       371.30       369.70
  3774401.89 |        370.10       373.50       369.30
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38

                                 PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART
***

                                            * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                            X-COORD (METERS)
    (METERS) |     479959.69    480038.76    480117.83    480196.90    480275.97
480355.04    480434.11    480513.18    480592.25
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774768.78 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774749.47 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774730.16 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774710.85 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774691.54 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774672.23 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774652.92 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
```

3774633.61 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774614.30 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774594.99 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774575.68 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774556.37 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774537.06 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774517.75 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774498.44 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774479.13 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774459.82 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774440.51 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774421.20 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774401.89 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 480671.32 480750.39 480829.46 480908.53 480987.60
481066.67 481145.74 481224.81 481303.88
- -

3774788.09 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774768.78 | 2401.30 2401.30 2401.30 2401.30 2401.30
2401.30 2401.30 2401.30 2401.30
3774749.47 | 2401.30 2401.30 2401.30 2401.30 2401.30

```
 2401.30      2401.30      2401.30      2401.30
  3774730.16 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774710.85 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774691.54 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774672.23 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774652.92 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774633.61 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774614.30 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774594.99 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774575.68 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774556.37 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774537.06 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774517.75 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774498.44 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774479.13 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774459.82 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774440.51 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774421.20 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
  3774401.89 |       2401.30      2401.30      2401.30      2401.30      2401.30
 2401.30      2401.30      2401.30      2401.30
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** NETWORK ID: UCART2   ;  NETWORK TYPE: GRIDCART ***

                                                    * HILL HEIGHT SCALES IN METERS *
```

Y-COORD (METERS)	X-COORD (METERS) 481382.95	481462.02	481541.09
3774788.09	2401.30	2401.30	2401.30
3774768.78	2401.30	2401.30	2401.30
3774749.47	2401.30	2401.30	2401.30
3774730.16	2401.30	2401.30	2401.30
3774710.85	2401.30	2401.30	2401.30
3774691.54	2401.30	2401.30	2401.30
3774672.23	2401.30	2401.30	2401.30
3774652.92	2401.30	2401.30	2401.30
3774633.61	2401.30	2401.30	2401.30
3774614.30	2401.30	2401.30	2401.30
3774594.99	2401.30	2401.30	2401.30
3774575.68	2401.30	2401.30	2401.30
3774556.37	2401.30	2401.30	2401.30
3774537.06	2401.30	2401.30	2401.30
3774517.75	2401.30	2401.30	2401.30
3774498.44	2401.30	2401.30	2401.30
3774479.13	2401.30	2401.30	2401.30
3774459.82	2401.30	2401.30	2401.30
3774440.51	2401.30	2401.30	2401.30
3774421.20	2401.30	2401.30	2401.30
3774401.89	2401.30	2401.30	2401.30

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(479864.1, 3774072.8, 354.6, 2401.3, 0.0); (479887.9, 3774070.1, 355.1, 2401.3, 0.0);
(479901.1, 3774139.4, 356.0, 2401.3, 0.0); (479776.3, 3774149.5, 354.9, 2401.3, 0.0);
(479737.3, 3774105.5, 353.7, 2401.3, 0.0); (479857.1, 3774101.6, 354.6, 2401.3, 0.0);
(479856.5, 3774053.8, 354.5, 2401.3, 0.0); (479923.4, 3774051.0, 355.2, 2401.3, 0.0);
(479923.4, 3774009.4, 354.9, 2401.3, 0.0); (479737.8, 3774014.4, 353.3, 2401.3, 0.0);

*** 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
```

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,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
Met Version: 16216

Profile file: ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
 12 01 01   1 01  -10.6  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22
1.00    1.30  110.    9.1  285.4    5.5
 12 01 01   1 02   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  130.    9.1  284.5    5.5
 12 01 01   1 03   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  100.    9.1  285.0    5.5
 12 01 01   1 04   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  107.    9.1  284.6    5.5
 12 01 01   1 05  -10.7  0.149 -9.000 -9.000 -999.  138.     26.7  0.32   3.22
1.00    1.30   98.    9.1  284.9    5.5
 12 01 01   1 06   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90   86.    9.1  284.5    5.5
 12 01 01   1 07   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90   91.    9.1  284.0    5.5
 12 01 01   1 08   -4.0  0.102 -9.000 -9.000 -999.   78.     22.9  0.32   3.22
0.54    0.90  107.    9.1  285.0    5.5
 12 01 01   1 09   44.6  0.237  0.382  0.006   43.  276.    -25.6  0.15   3.22
0.33    2.10   81.   10.1  289.1    5.5
 12 01 01   1 10  134.3  0.111  0.882  0.008  176.   99.     -1.0  0.32   3.22
0.26    0.40   72.    9.1  295.1    5.5
 12 01 01   1 11  199.8  0.409  1.429  0.005  503.  627.    -29.4  0.15   3.22
0.23    3.68   78.   10.1  297.9    5.5
 12 01 01   1 12  232.3  0.300  1.889  0.005  999.  402.    -10.0  0.32   3.22
0.22    1.80  333.    9.1  299.4    5.5
 12 01 01   1 13  230.0  0.300  2.134  0.005 1453.  394.    -10.1  0.32   3.22
0.22    1.80   72.    9.1  300.4    5.5
 12 01 01   1 14  194.0  0.294  2.109  0.005 1663.  382.    -11.2  0.32   3.22
0.24    1.80  277.    9.1  301.0    5.5
 12 01 01   1 15  126.3  0.378  1.872  0.005 1784.  557.    -36.5  0.32   3.22
0.27    2.70  243.    9.1  301.0    5.5
 12 01 01   1 16   39.5  0.199  1.278  0.005 1817.  240.    -17.2  0.32   3.22
0.36    1.30  274.    9.1  300.1    5.5
 12 01 01   1 17   -4.7  0.101 -9.000 -9.000 -999.   85.     19.0  0.32   3.22
0.65    0.90  252.    9.1  298.2    5.5
```

```
 12 01 01   1 18   -4.9  0.102 -9.000 -9.000 -999.   78.     18.2  0.32   3.22
1.00    0.90  116.    9.1  296.4    5.5
 12 01 01   1 19  -18.8  0.204 -9.000 -9.000 -999.  220.     45.6  0.15   3.22
1.00    2.27   79.   10.1  292.2    5.5
 12 01 01   1 20   -5.0  0.102 -9.000 -9.000 -999.   83.     18.1  0.32   3.22
1.00    0.90   95.    9.1  290.2    5.5
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479159.28    479197.54    479235.80    479274.06    479312.32
479350.58    479388.84    479427.10    479465.36
```

- -

3774809.03	1.58452	1.62996	1.67314	1.71376	1.75164	1.78653	1.81826	1.84675	1.87199
3774779.37	1.66771	1.71765	1.76511	1.80954	1.85091	1.88888	1.92323	1.95396	1.98101
3774749.71	1.75918	1.81430	1.86643	1.91537	1.96063	2.00201	2.03930	2.07245	2.10145
3774720.05	1.85978	1.92094	1.97872	2.03266	2.08238	2.12763	2.16806	2.20394	2.23510
3774690.39	1.97138	2.03955	2.10376	2.16342	2.21822	2.26787	2.31189	2.35084	2.38422
3774660.73	2.09593	2.17211	2.24373	2.31028	2.37096	2.42541	2.47338	2.51559	2.55145
3774631.07	2.23574	2.32167	2.40212	2.47623	2.54344	2.60337	2.65587	2.70158	2.74011
3774601.41	2.39400	2.49153	2.58245	2.66552	2.74019	2.80650	2.86384	2.91334	2.95465
3774571.75	2.57480	2.68597	2.78912	2.88275	2.96630	3.03962	3.10259	3.15615	3.20035
3774542.09	2.78292	2.91101	3.02896	3.13509	3.22876	3.30996	3.37907	3.43700	3.48424
3774512.43	3.02540	3.17459	3.31057	3.43154	3.53686	3.62696	3.70283	3.76541	3.81581
3774482.77	3.31257	3.48821	3.64623	3.78481	3.90362	4.00374	4.08665	4.15423	4.20774
3774453.11	3.65833	3.86801	4.05352	4.21323	4.34742	4.45852	4.54895	4.62145	4.67808
3774423.45	4.08398	4.33845	4.55884	4.74379	4.89550	5.01827	5.11659	5.19410	5.25361
3774393.79	4.62225	4.93828	5.20335	5.41816	5.58915	5.72412	5.83026	5.91228	5.97419
3774364.13	5.32944	5.73227	6.05528	6.30496	6.49629	6.64299	6.75594	6.84183	6.90521
3774334.47	6.30719	6.83984	7.23774	7.52613	7.73707	7.89333	8.01163	8.09936	8.16280
3774304.81	7.76709	8.50576	8.99827	9.32406	9.54913	9.71074	9.82886	9.91420	9.97226
3774275.15	10.23215	11.32480	11.92125	12.26681	12.48860	12.63795	12.74666	12.82105	12.86746
3774245.49	15.46281	17.19061	17.82732	18.11772	18.28284	18.39104	18.45460	18.48703	18.49366
3774215.83	34.78228	36.87321	37.12966	37.02091	36.87054	36.72357	36.53309	36.32456	36.11371

*** AERMOD - VERSION 19191 *** *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\3rd and Central\3r *** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 14:51:38

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479503.62	479541.88	479580.14	479618.40	479656.66	479694.92	479733.18	479771.44	479809.70
3774809.03	1.89308	1.90900	1.91894	1.92919	1.93652	1.94075	1.94407	1.94195	1.93792
3774779.37	2.00441	2.02281	2.03168	2.04332	2.05050	2.05611	2.05669	2.05089	2.03999
3774749.71	2.12632	2.14722	2.15882	2.16765	2.17386	2.17797	2.18101	2.17215	2.16752
3774720.05	2.26159	2.28357	2.29973	2.30821	2.31393	2.31738	2.31633	2.30454	2.30021
3774690.39	2.41234	2.43546	2.45103	2.45889	2.46468	2.46987	2.46658	2.45966	2.45059
3774660.73	2.58135	2.60556	2.62328	2.63376	2.63665	2.64008	2.63594	2.62896	2.61801
3774631.07	2.77190	2.79722	2.81649	2.82733	2.82998	2.83210	2.82698	2.81559	2.80576
3774601.41	2.98828	3.01466	3.03424	3.04466	3.04399	3.04713	3.04117	3.02312	3.01085
3774571.75	3.23582	3.26322	3.28293	3.29081	3.29081	3.29235	3.28535	3.26508	3.24983
3774542.09	3.52159	3.54986	3.56746	3.57470	3.57620	3.57652	3.56605	3.54349	3.52271
3774512.43	3.85499	3.88386	3.90330	3.91089	3.91224	3.90558	3.89185	3.86669	3.84160
3774482.77	4.24859	4.27789	4.29450	4.29900	4.29895	4.29107	4.27378	4.24595	4.21625

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  3774453.11 |       4.72052      4.75010      4.76633      4.76967      4.76430
 4.75131      4.72996      4.69982      4.66490
  3774423.45 |       5.29709      5.32639      5.34253      5.34545      5.33424
 5.31619      5.28939      5.25303      5.20878
  3774393.79 |       6.01845      6.04683      6.06011      6.05856      6.04371
 6.02069      5.98607      5.94063      5.88534
  3774364.13 |       6.94934      6.97591      6.98595      6.98095      6.96033
 6.92565      6.87809      6.82343      6.75804
  3774334.47 |       8.20453      8.22719      8.23163      8.21973      8.19020
 8.14436      8.08019      8.00570      7.93323
  3774304.81 |      10.00826     10.02294     10.01983      9.99707      9.95430
 9.89129      9.80730      9.70201      9.61183
  3774275.15 |      12.88938     12.88899     12.87076     12.82866     12.76692
12.68269     12.58594     12.43754     12.30921
  3774245.49 |      18.47739     18.43762     18.37422     18.29890     18.18816
18.07488     17.89621     17.71408     17.48353
  3774215.83 |      35.87737     35.60888     35.32919     35.02946     34.73183
34.40525     34.04464     33.62604     33.15062
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     479847.96    479886.22    479924.48
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |       1.93349      1.92564      1.91605
  3774779.37 |       2.04043      2.03125      2.02191
```

```
  3774749.71 |       2.16089      2.14879      2.13801
  3774720.05 |       2.28889      2.27836      2.26734
  3774690.39 |       2.43964      2.42369      2.41274
  3774660.73 |       2.60614      2.59237      2.57232
  3774631.07 |       2.78984      2.77328      2.75253
  3774601.41 |       2.99389      2.97597      2.95368
  3774571.75 |       3.22958      3.20650      3.18046
  3774542.09 |       3.49848      3.47114      3.44060
  3774512.43 |       3.81240      3.77954      3.74391
  3774482.77 |       4.18239      4.14317      4.09977
  3774453.11 |       4.62206      4.57567      4.52307
  3774423.45 |       5.15796      5.10082      5.03872
  3774393.79 |       5.82255      5.75183      5.67606
  3774364.13 |       6.67857      6.59055      6.49563
  3774334.47 |       7.83147      7.71693      7.59608
  3774304.81 |       9.48808      9.33487      9.17951
  3774275.15 |      12.11987     11.91688     11.70668
  3774245.49 |      17.23787     16.91599     16.47427
  3774215.83 |      32.01961     31.73119     30.94849
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479959.69    480038.76    480117.83    480196.90    480275.97
480355.04    480434.11    480513.18    480592.25
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

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 3774788.09 |       1.97795      1.94837      1.91811      1.88725      1.85351
1.81638      1.77416      1.73250      1.69264
 3774768.78 |       2.04391      2.01915      1.98259      1.95080      1.91873
1.88022      1.83643      1.79107      1.75150
 3774749.47 |       2.12525      2.09426      2.05396      2.01643      1.98099
1.94186      1.90025      1.85313      1.81204
 3774730.16 |       2.20604      2.17442      2.14179      2.09942      2.05632
2.01149      1.96801      1.92093      1.88026
 3774710.85 |       2.29586      2.26117      2.22576      2.18407      2.13591
2.08557      2.04192      1.99524      1.95260
 3774691.54 |       2.39330      2.35809      2.31802      2.27445      2.22623
2.16673      2.12060      2.07422      2.02944
 3774672.23 |       2.49590      2.45597      2.41081      2.36589      2.31615
2.25333      2.21038      2.16230      2.11122
 3774652.92 |       2.60070      2.55896      2.50903      2.45906      2.40498
2.34595      2.29679      2.24604      2.19842
 3774633.61 |       2.71532      2.66774      2.61600      2.55906      2.50337
2.44489      2.39300      2.34008      2.28967
 3774614.30 |       2.83549      2.78545      2.72969      2.66780      2.61134
2.55163      2.50227      2.44229      2.38791
 3774594.99 |       2.97337      2.91890      2.85152      2.78832      2.72987
2.66636      2.61349      2.54905      2.49176
 3774575.68 |       3.12451      3.06461      2.98848      2.91745      2.85952
2.79080      2.73390      2.66639      2.60402
 3774556.37 |       3.28400      3.21812      3.13143      3.06147      2.99840
2.92695      2.86139      2.79343      2.72575
 3774537.06 |       3.46484      3.38445      3.28432      3.21844      3.15120
3.07515      3.00205      2.92987      2.85986
 3774517.75 |       3.65835      3.57247      3.46005      3.39263      3.31776
3.23539      3.15596      3.08147      3.00707
 3774498.44 |       3.86931      3.77988      3.65865      3.58270      3.50224
3.41146      3.32843      3.24727      3.16530
 3774479.13 |       4.10571      4.00737      3.87527      3.79052      3.70217
3.60474      3.51477      3.42322      3.33726
 3774459.82 |       4.37254      4.26275      4.12424      4.02532      3.92522
3.82087      3.72089      3.61964      3.51447
 3774440.51 |       4.67431      4.54971      4.40505      4.28926      4.17487
4.06128      3.94918      3.84870      3.74744
 3774421.20 |       5.02032      4.87794      4.72228      4.58767      4.45649
4.33047      4.20997      4.09377      3.98333
 3774401.89 |       5.41717      5.25425      5.08304      4.92599      4.77885
4.63333      4.50269      4.37852      4.25436
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***

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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480671.32	480750.39	480829.46	480908.53	480987.60	481066.67	481145.74	481224.81	481303.88
3774788.09	1.63833	1.60228	1.56391	1.52344	1.47474	1.41741	1.37225	1.31330	1.25361
3774768.78	1.69738	1.65817	1.61845	1.57816	1.52170	1.47214	1.42266	1.35834	1.29518
3774749.47	1.76523	1.71735	1.67913	1.63418	1.58130	1.52989	1.47421	1.40890	1.34208
3774730.16	1.83141	1.78012	1.74328	1.69576	1.64409	1.58866	1.53050	1.46196	1.39734
3774710.85	1.89806	1.84682	1.80996	1.76072	1.70591	1.65063	1.59000	1.51641	1.44931
3774691.54	1.96724	1.91782	1.87923	1.82793	1.77322	1.71615	1.65211	1.57707	1.50791
3774672.23	2.04302	1.99353	1.94990	1.89990	1.84513	1.78442	1.71841	1.64520	1.57052
3774652.92	2.12412	2.07444	2.03192	1.97937	1.92421	1.85734	1.78896	1.71376	1.63668
3774633.61	2.21109	2.16110	2.11318	2.05749	2.00153	1.93392	1.86490	1.78566	1.70549
3774614.30	2.30461	2.25411	2.20213	2.14532	2.08737	2.01763	1.94795	1.87026	1.78715
3774594.99	2.40542	2.35419	2.29948	2.24295	2.17958	2.10792	2.03775	1.95722	1.87600
3774575.68	2.51648	2.46215	2.40744	2.34626	2.28230	2.20478	2.13383	2.05194	1.96323
3774556.37	2.63471	2.57894	2.51628	2.45092	2.38469	2.30901	2.23699	2.14984	2.06116
3774537.06	2.76595	2.70394	2.63457	2.56749	2.49554				

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 2.42214      2.34721      2.25994      2.16424
  3774517.75 |       2.90645      2.84194      2.77140      2.69988      2.62406
 2.54488      2.46794      2.37918      2.27815
  3774498.44 |       3.06045      2.99268      2.91859      2.84104      2.76083
 2.67841      2.59703      2.49859      2.40426
  3774479.13 |       3.22998      3.15649      3.07929      2.99823      2.91308
 2.82435      2.73934      2.63465      2.54110
  3774459.82 |       3.42131      3.33576      3.25240      3.16369      3.07511
 2.98299      2.89495      2.78877      2.69048
  3774440.51 |       3.64208      3.53487      3.44423      3.34963      3.25341
 3.15590      3.06543      2.96365      2.85785
  3774421.20 |       3.87556      3.76006      3.66414      3.55764      3.45200
 3.34882      3.25450      3.15361      3.04275
  3774401.89 |       4.13455      4.01003      3.90194      3.78593      3.67286
 3.56701      3.46378      3.36206      3.25110
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                  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    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     481382.95    481462.02    481541.09
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       1.19542      1.12525      1.03793
  3774768.78 |       1.23591      1.16429      1.08504
  3774749.47 |       1.28055      1.20703      1.12974
  3774730.16 |       1.32806      1.25283      1.17415
  3774710.85 |       1.37842      1.29996      1.21965
```

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  3774691.54 |       1.43254      1.35002      1.26558
  3774672.23 |       1.49224      1.40569      1.31441
  3774652.92 |       1.55276      1.45842      1.36700
  3774633.61 |       1.61788      1.52409      1.42472
  3774614.30 |       1.69254      1.59375      1.48551
  3774594.99 |       1.77390      1.66906      1.54954
  3774575.68 |       1.84968      1.74463      1.61893
  3774556.37 |       1.93934      1.82959      1.69779
  3774537.06 |       2.04038      1.92096      1.78375
  3774517.75 |       2.15321      2.02409      1.87407
  3774498.44 |       2.27406      2.14222      1.94593
  3774479.13 |       2.41567      2.26272      2.06583
  3774459.82 |       2.56349      2.39429      2.22808
  3774440.51 |       2.72104      2.53894      2.37893
  3774421.20 |       2.90991      2.72866      2.53078
  3774401.89 |       3.11511      2.88481      2.70118
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
                                 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         479864.11    3774072.83       11.75927                      479887.91
3774070.12       10.93321
         479901.10    3774139.42       17.28843                      479776.30
3774149.50       21.24634
         479737.27    3774105.54       17.86622                      479857.06
```

3774101.60 13.31209
479856.50 3774053.80 11.54979 479923.42
3774050.99 9.45899
479923.42 3774009.37 8.17901 479737.84
3774014.43 54.40666

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 ,
L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 ,
L0000406 , L0000407 , L0000408 , L0000409 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32	479350.58	479388.84	479427.10	479465.36
3774809.03	1.76441	1.84212	1.92186	2.00312	2.08546	2.16806	2.24978	2.32955	2.40594
3774779.37	1.83734	1.92241	2.01035	2.10014	2.19180	2.28427	2.37608	2.46641	2.55349
3774749.71	1.91404	2.00736	2.10389	2.20378	2.30589	2.40951	2.51322	2.61567	2.71520
3774720.05	1.99380	2.09622	2.20301	2.31379	2.42786	2.54435	2.66120	2.77803	2.89229
3774690.39	2.07729	2.18974	2.30769	2.43067	2.55830	2.68967	2.82222	2.95641	3.08784
3774660.73	2.16452	2.28771	2.41788	2.55520	2.69851	2.84648	2.99705	3.15076	3.30254
3774631.07	2.25530	2.39077	2.53486	2.68739	2.84779	3.01491	3.18695	3.36338	3.53951
3774601.41	2.34967	2.49860	2.65830	2.82824	3.00800	3.19792	3.39398	3.59749	3.80267
3774571.75	2.44763	2.61070	2.78704	2.97639	3.17886

```
 3.39426      3.61917      3.85464      4.09463
  3774542.09 |       2.54814      2.72694      2.92178      3.13297      3.36085
 3.60519      3.86338      4.13689      4.41852
  3774512.43 |       2.65068      2.84669      3.06173      3.29712      3.55307
 3.83120      4.12862      4.44542      4.77751
  3774482.77 |       2.75550      2.96977      3.20652      3.46805      3.75562
 4.07167      4.41506      4.78426      5.17757
  3774453.11 |       2.86147      3.09519      3.35531      3.64570      3.96806
 4.32767      4.72290      5.15487      5.62141
  3774423.45 |       2.96798      3.22194      3.50731      3.82899      4.19045
 4.59754      5.05182      5.55674      6.11188
  3774393.79 |       3.07317      3.34907      3.66114      4.01602      4.41974
 4.87996      5.40131      5.99181      6.65330
  3774364.13 |       3.17662      3.47417      3.81435      4.20466      4.65385
 5.17283      5.77063      6.45904      7.24734
  3774334.47 |       3.27637      3.59608      3.96427      4.39133      4.88904
 5.47202      6.15336      6.95382      7.88997
  3774304.81 |       3.37153      3.71283      4.10993      4.57450      5.12158
 5.77057      6.54356      7.46836      8.57698
  3774275.15 |       3.46019      3.82273      4.24823      4.75010      5.34702
 6.06720      6.93625      7.99786      9.30374
  3774245.49 |       3.53993      3.92230      4.37425      4.91181      5.55841
 6.34631      7.31435      8.52048     10.04180
  3774215.83 |       3.61023      4.01101      4.48719      5.05785      5.75061
 6.60366      7.66786      9.01851     10.76502
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                  INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                 L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                 L0000406    , L0000407    , L0000408    , L0000409    ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     479503.62    479541.88    479580.14    479618.40    479656.66
479694.92    479733.18    479771.44    479809.70
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- -

3774809.03	2.47764	2.54302	2.60042	2.64899	2.68720	2.71396	2.72863	2.73038	2.71944
3774779.37	2.63564	2.71097	2.77717	2.83361	2.87804	2.90939	2.92624	2.92800	2.91460
3774749.71	2.80955	2.89664	2.97385	3.03933	3.09115	3.12776	3.14810	3.14989	3.13520
3774720.05	3.00147	3.10263	3.19320	3.27010	3.33115	3.37443	3.39795	3.39994	3.38283
3774690.39	3.21411	3.33202	3.43827	3.52900	3.60143	3.65340	3.68128	3.68474	3.66392
3774660.73	3.44991	3.58830	3.71430	3.82268	3.90909	3.97123	4.00486	4.00939	3.98445
3774631.07	3.71208	3.87575	4.02605	4.15616	4.26071	4.33604	4.37699	4.38200	4.35244
3774601.41	4.00546	4.20006	4.38003	4.53731	4.66396	4.75685	4.80760	4.81281	4.77659
3774571.75	4.33463	4.56690	4.78412	4.97566	5.13189	5.24687	5.31048	5.31725	5.27234
3774542.09	4.70365	4.98348	5.24770	5.48361	5.67898	5.82364	5.90341	5.91229	5.85532
3774512.43	5.11871	5.45844	5.78351	6.07814	6.32559	6.50787	6.61011	6.62192	6.54922
3774482.77	5.58729	6.00204	6.40508	6.77569	7.09182	7.32805	7.46132	7.47878	7.38436
3774453.11	6.11597	6.62618	7.13200	7.60575	8.01457	8.32356	8.50159	8.52830	8.40413
3774423.45	6.71245	7.34494	7.98621	8.60141	9.14179	9.55724	9.79958	9.83785	9.66797
3774393.79	7.38424	8.17344	8.99541	9.80335	10.53209	11.10540	11.44266	11.49864	11.25669
3774364.13	8.13915	9.12882	10.19269	11.27311	12.28093	13.09450	13.58854	13.66458	13.30941
3774334.47	8.98028	10.22753	11.61855	13.08410	14.50622	15.69665	16.44174	16.56489	16.02375
3774304.81	9.90640	11.48107	13.30879	15.33231	17.39499	19.20480	20.37391	20.58462	19.74151
3774275.15	10.91624	12.90266	15.32110	18.14773	21.22047	24.08686	26.01191	26.37879	24.97180
3774245.49	11.98460	14.47279	17.66226	21.66510	26.36791	31.14118	34.64699	35.27713	32.77289
3774215.83	13.06433	16.14194	20.32314	25.98998	33.37394	41.84672	48.76415	50.09786	44.98049

*** AERMOD - VERSION 19191 *** *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\3rd and Central\3r *** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 14:51:38

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 , L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 , L0000406 , L0000407 , L0000408 , L0000409 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479847.96	479886.22	479924.48
3774809.03	2.69633	2.66150	2.61612
3774779.37	2.88841	2.84796	2.79557
3774749.71	3.10374	3.05628	2.99524
3774720.05	3.34529	3.28990	3.21853
3774690.39	3.61958	3.55342	3.46937
3774660.73	3.93160	3.85312	3.75197
3774631.07	4.28817	4.19353	4.07253
3774601.41	4.69838	4.58352	4.43746
3774571.75	5.17558	5.03374	4.85525
3774542.09	5.73403	5.55735	5.33691
3774512.43	6.39496	6.17191	5.89646
3774482.77	7.18565	6.89982	6.55046
3774453.11	8.14121	7.76971	7.32048
3774423.45	9.31499	8.82151	8.23811
3774393.79	10.77224	10.10159	9.33007
3774364.13	12.61757	11.68959	10.64699
3774334.47	15.00108	13.67852	12.24536
3774304.81	18.15326	16.20903	14.19529
3774275.15	22.44117	19.46510	16.58817
3774245.49	28.37181	23.69174	19.57423
3774215.83	37.02821	29.25910	23.13206

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***

INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 , L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 , L0000406 , L0000407 , L0000408 , L0000409 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479959.69	480038.76	480117.83	480196.90	480275.97	480355.04	480434.11	480513.18	480592.25
3774788.09	2.68546	2.41290	2.22812	2.04351	1.86415	1.69415	1.53645	1.37976	1.23899
3774768.78	2.80310	2.51591	2.30490	2.11035	1.92428	1.74361	1.57725	1.41204	1.26990
3774749.47	2.92976	2.62563	2.39303	2.17740	1.97670	1.78862	1.61768	1.44533	1.29774
3774730.16	3.06515	2.77884	2.51317	2.26969	2.04438	1.83953	1.65948	1.48476	1.33480
3774710.85	3.21097	2.95022	2.62119	2.36414	2.11512	1.89235	1.70447	1.53045	1.37327
3774691.54	3.36808	3.12862	2.79961	2.46416	2.19797	1.94940	1.75101	1.57575	1.41327
3774672.23	3.53714	3.27162	2.91423	2.55807	2.27569	2.00868	1.80489	1.62290	1.45477
3774652.92	3.71883	3.42428	3.00986	2.64456	2.34088	2.07029	1.85112	1.66109	1.49680
3774633.61	3.91558	3.58739	3.13738	2.73544	2.41535	2.13435	1.90304	1.70401	1.53500
3774614.30	4.12806	3.76212	3.22618	2.83095	2.49634	2.20098	1.96326	1.75012	1.57382
3774594.99	4.36012	3.95048	3.35658	2.93970	2.58429	2.27034	2.01945	1.79471	1.61148
3774575.68	4.61302	4.15311	3.51203	3.04966	2.67974	2.34261	2.07789	1.84284	1.65079
3774556.37	4.88750	4.36982	3.65349	3.17422	2.77598	2.42080	2.13434	1.89305	1.69192
3774537.06	5.18925	4.60250	3.79818	3.30537	2.88046	2.50249	2.19563	1.94386	1.73711
3774517.75	5.51822	4.85428	3.97003	3.44845	2.98996				

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 2.58496      2.25984      2.00060      1.78542
  3774498.44 |       5.87747      5.12560      4.16512      3.59430      3.11302
 2.67136      2.33398      2.06011      1.83326
  3774479.13 |       6.27297      5.41707      4.35983      3.73762      3.22542
 2.75909      2.40499      2.11272      1.88109
  3774459.82 |       6.70941      5.73199      4.58745      3.89979      3.34791
 2.85750      2.47785      2.17087      1.89337
  3774440.51 |       7.19133      6.07045      4.83791      4.07694      3.47691
 2.95816      2.54908      2.24837      1.99656
  3774421.20 |       7.72648      6.43773      5.11404      4.27051      3.60884
 3.04768      2.66931      2.33643      2.06699
  3774401.89 |       8.32421      6.83499      5.57378      4.54201      3.73292
 3.20091      2.75010      2.38657      2.11028
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     480671.32    480750.39    480829.46    480908.53    480987.60
481066.67    481145.74    481224.81    481303.88
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       1.09401      0.99937      0.91477      0.84120      0.77101
 0.70590      0.65949      0.61376      0.57357
  3774768.78 |       1.12248      1.02144      0.93409      0.86013      0.78182
 0.72318      0.67304      0.62436      0.58268
  3774749.47 |       1.16149      1.04424      0.95846      0.87787      0.80203
 0.74117      0.68605      0.63630      0.59375
  3774730.16 |       1.19243      1.06781      0.98377      0.89815      0.82310
 0.75730      0.70067      0.64875      0.60763
  3774710.85 |       1.21766      1.09222      1.00771      0.91920      0.84020
```

```
 0.77409      0.71590      0.66085      0.61894
  3774691.54 |       1.24037      1.11752      1.03013      0.93907      0.85962
 0.79158      0.73067      0.67443      0.63238
  3774672.23 |       1.26742      1.14379      1.04857      0.95975      0.87985
 0.80845      0.74612      0.69052      0.64646
  3774652.92 |       1.29552      1.17110      1.07767      0.98544      0.90440
 0.82610      0.76229      0.70546      0.66037
  3774633.61 |       1.32478      1.19956      1.09794      1.00177      0.92127
 0.84319      0.77926      0.72020      0.67416
  3774614.30 |       1.35531      1.22927      1.12177      1.02531      0.94257
 0.86258      0.79823      0.73954      0.69114
  3774594.99 |       1.38726      1.26033      1.14931      1.05420      0.96492
 0.88295      0.81813      0.75783      0.70974
  3774575.68 |       1.42438      1.29289      1.18336      1.08229      0.99375
 0.90436      0.83901      0.77798      0.72582
  3774556.37 |       1.45964      1.32708      1.20601      1.10103      1.01132
 0.92689      0.86090      0.79614      0.74439
  3774537.06 |       1.50052      1.35994      1.23038      1.12552      1.03040
 0.95060      0.88265      0.81816      0.76217
  3774517.75 |       1.53987      1.39781      1.26905      1.15989      1.06117
 0.97554      0.90667      0.84116      0.78165
  3774498.44 |       1.58158      1.43779      1.30711      1.19170      1.08995
 1.00175      0.92945      0.85658      0.80281
  3774479.13 |       1.62591      1.47689      1.34715      1.23152      1.12531
 1.02926      0.95453      0.87699      0.82404
  3774459.82 |       1.68051      1.51539      1.38151      1.25843      1.15365
 1.05676      0.98074      0.90120      0.84535
  3774440.51 |       1.76153      1.55661      1.41819      1.29352      1.18209
 1.08312      1.00698      0.93070      0.86901
  3774421.20 |       1.84842      1.60656      1.48712      1.33632      1.21392
 1.11227      1.03539      0.95922      0.89267
  3774401.89 |       1.87465      1.65355      1.52002      1.39659      1.27830
 1.16708      1.06284      0.98756      0.91972
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FORK     ***
                                  INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 481382.95	481462.02	481541.09
3774788.09	0.54001	0.50638	0.47218
3774768.78	0.54927	0.51567	0.48434
3774749.47	0.55962	0.52596	0.49550
3774730.16	0.57044	0.53671	0.50662
3774710.85	0.58175	0.54733	0.51769
3774691.54	0.59359	0.55845	0.52817
3774672.23	0.60670	0.57072	0.53915
3774652.92	0.61901	0.58109	0.55065
3774633.61	0.63196	0.59513	0.56325
3774614.30	0.64770	0.60981	0.57587
3774594.99	0.66416	0.62513	0.58853
3774575.68	0.67640	0.63863	0.60179
3774556.37	0.69225	0.65405	0.61676
3774537.06	0.71026	0.66955	0.63234
3774517.75	0.72974	0.68696	0.64745
3774498.44	0.74930	0.70681	0.65493
3774479.13	0.77093	0.72376	0.67445
3774459.82	0.79127	0.74030	0.70531
3774440.51	0.81105	0.75704	0.72814
3774421.20	0.83460	0.78339	0.74818
3774401.89	0.85856	0.79220	0.76742

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 , L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 , L0000406 , L0000407 , L0000408 , L0000409 ,

*** 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
- -

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
479864.11	3774072.83	91.00832	479887.91	3774070.12	63.59709
479901.10	3774139.42	44.24700	479776.30	3774149.50	164.99377
479737.27	3774105.54	773.30965	479857.06	3774101.60	98.00542
479856.50	3774053.80	96.64286	479923.42	3774050.99	40.44222
479923.42	3774009.37	34.49810	479737.84	3774014.43	157.52966

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 , STCK8 , STCK9 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32	479350.58	479388.84	479427.10	479465.36
3774809.03	1.22045	1.20792	1.19766	1.18986	1.18729	1.18962	1.19395	1.20055	1.20566
3774779.37	1.31969	1.30171	1.28798	1.27308	1.26641	1.26539	1.26486	1.27015	1.27572
3774749.71	1.43693	1.41368	1.38877	1.37232	1.35860	1.35180	1.34907	1.35007	1.35510
3774720.05	1.56457	1.53518	1.50654	1.48127	1.46081				

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 1.44747      1.43212      1.43036      1.43578
  3774690.39 |       1.71446      1.67795      1.64107      1.60518      1.57605
 1.55620      1.53240      1.53540      1.53699
  3774660.73 |       1.89112      1.84214      1.79333      1.75368      1.71758
 1.68371      1.64642      1.63979      1.63328
  3774631.07 |       2.09848      2.04298      1.98495      1.92752      1.87410
 1.82359      1.77549      1.75478      1.73858
  3774601.41 |       2.34392      2.28333      2.21868      2.14604      2.06916
 2.00950      1.93617      1.90049      1.87191
  3774571.75 |       2.63706      2.56337      2.48442      2.39432      2.30374
 2.22338      2.12855      2.07374      2.02787
  3774542.09 |       2.97111      2.89314      2.80376      2.70072      2.59018
 2.48095      2.35393      2.27824      2.20440
  3774512.43 |       3.34795      3.27352      3.17645      3.06200      2.92267
 2.79263      2.63802      2.50603      2.40039
  3774482.77 |       3.79210      3.72135      3.61358      3.48060      3.31625
 3.15445      2.97908      2.79698      2.65460
  3774453.11 |       4.30114      4.24009      4.12436      3.97925      3.78261
 3.60302      3.38327      3.16038      2.95730
  3774423.45 |       4.87485      4.83333      4.72412      4.57114      4.35787
 4.13113      3.85461      3.57295      3.30759
  3774393.79 |       5.47325      5.49570      5.41340      5.25766      5.02559
 4.75614      4.41466      4.07726      3.73788
  3774364.13 |       6.09604      6.17523      6.15442      6.02735      5.79566
 5.49940      5.11107      4.68845      4.26221
  3774334.47 |       6.68761      6.85211      6.89189      6.81991      6.63129
 6.34878      5.89638      5.39412      4.84264
  3774304.81 |       7.21353      7.46904      7.62385      7.63951      7.49772
 7.21209      6.75763      6.17041      5.50882
  3774275.15 |       7.58937      7.95834      8.25265      8.38771      8.33057
 8.19224      7.74481      7.12229      6.36925
  3774245.49 |       7.72255      8.18830      8.59717      8.86025      8.95610
 8.89942      8.56769      8.01041      7.23103
  3774215.83 |       7.63764      8.18697      8.68952      9.06512      9.29062
 9.35304      9.16148      8.71985      8.00718
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING   ***
                                  INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479503.62	479541.88	479580.14	479618.40	479656.66	479694.92	479733.18	479771.44	479809.70
3774809.03	1.20762	1.20089	1.17585	1.15932	1.14090	1.11843	1.09821	1.06968	1.04259
3774779.37	1.28047	1.28057	1.25097	1.23754	1.21724	1.19710	1.16631	1.12738	1.08421
3774749.71	1.35944	1.35912	1.34258	1.31667	1.28973	1.26439	1.24495	1.19393	1.16647
3774720.05	1.44260	1.44331	1.44018	1.41467	1.38437	1.35658	1.32009	1.26087	1.23627
3774690.39	1.53931	1.53438	1.52601	1.49554	1.46391	1.44566	1.40103	1.35608	1.31994
3774660.73	1.63547	1.62794	1.62790	1.61021	1.56630	1.54172	1.49316	1.45022	1.41061
3774631.07	1.73475	1.72819	1.73135	1.71615	1.67874	1.65210	1.59891	1.54099	1.50892
3774601.41	1.85536	1.84563	1.84373	1.82591	1.76650	1.75544	1.70590	1.62633	1.59180
3774571.75	1.99955	1.97507	1.96459	1.93519	1.87845	1.86596	1.82032	1.73524	1.69926
3774542.09	2.15582	2.11770	2.09347	2.04984	2.00479	2.00223	1.94458	1.85289	1.80905
3774512.43	2.32900	2.27789	2.23670	2.20208	2.17250	2.13783	2.07849	1.97962	1.93340
3774482.77	2.54309	2.45887	2.39204	2.32571	2.29014	2.26366	2.20218	2.11668	2.07140
3774453.11	2.79127	2.66664	2.56988	2.49365	2.42317	2.37169	2.32025	2.26489	2.22835
3774423.45	3.08461	2.90748	2.77120	2.68125	2.60220	2.54367	2.49223	2.44698	2.40195
3774393.79	3.43010	3.18243	3.00247	2.86866	2.76771	2.71979	2.65725	2.62711	2.55123
3774364.13	3.85476	3.50277	3.25793	3.07446	2.98083	2.95011	2.94491	2.87442	2.76108
3774334.47	4.33624	3.87817	3.56263	3.29548	3.16740	3.14408	3.16676	3.14858	3.00813
3774304.81	4.87260	4.29443	3.84307	3.50572	3.33351	3.30534	3.34570	3.38393	3.32834
3774275.15	5.56542	4.83234	4.24628	3.76092	3.51267	3.45953	3.48947	3.57471	3.59702
3774245.49	6.37782	5.44448	4.63873	4.05487	3.69960				

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 3.64003      3.79385      3.91754      4.05506
  3774215.83 |       7.10919      6.07993      5.12107      4.37255      3.96156
 3.98812      4.31226      4.60290      4.81186
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING   ***
                                  INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479847.96    479886.22    479924.48
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |       1.02051      0.99611      0.96987
  3774779.37 |       1.07481      1.04878      1.02450
  3774749.71 |       1.14066      1.10884      1.08296
  3774720.05 |       1.20058      1.17458      1.14974
  3774690.39 |       1.28511      1.24839      1.22643
  3774660.73 |       1.37726      1.34738      1.30441
  3774631.07 |       1.46962      1.43680      1.39504
  3774601.41 |       1.55570      1.52726      1.48957
  3774571.75 |       1.66234      1.62658      1.58653
  3774542.09 |       1.76909      1.73419      1.69215
  3774512.43 |       1.89484      1.85623      1.81433
  3774482.77 |       2.03997      2.00013      1.94936
  3774453.11 |       2.19264      2.16203      2.10277
  3774423.45 |       2.37892      2.35278      2.31103
  3774393.79 |       2.56071      2.52865      2.51463
  3774364.13 |       2.76886      2.76973      2.76479
  3774334.47 |       3.02637      3.05590      3.07209
  3774304.81 |       3.34628      3.43664      3.45702
  3774275.15 |       3.73958      3.88938      3.97031
  3774245.49 |       4.21895      4.46203      4.75685
  3774215.83 |       5.13639      5.37590      5.68780
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
```

Central\3rd and Central\3r *** 04/05/22
 *** AERMET - VERSION 16216 *** ***
                  *** 14:51:38

                              PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING ***
                              INCLUDING SOURCE(S): STCK1 , STCK2
, STCK3 , STCK4 , STCK5 ,
           STCK6 , STCK7 , STCK8 , STCK9 ,

                               *** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

                                    ** CONC OF PM_10 IN MICROGRAMS/M**3
                **

Y-COORD (METERS)	X-COORD (METERS) 479959.69	480038.76	480117.83	480196.90	480275.97	480355.04	480434.11	480513.18	480592.25
3774788.09	0.97992	0.92131	0.86976	0.82454	0.77603	0.72722	0.67301	0.62100	0.57626
3774768.78	1.00973	0.95650	0.89570	0.85099	0.80626	0.75355	0.69548	0.63996	0.59372
3774749.47	1.05279	0.99463	0.92959	0.87830	0.82957	0.77646	0.71822	0.65972	0.61185
3774730.16	1.09155	1.03468	0.98408	0.92353	0.86560	0.80443	0.74208	0.68200	0.63308
3774710.85	1.14084	1.07965	1.02706	0.96970	0.90402	0.83322	0.76904	0.70719	0.65506
3774691.54	1.19483	1.13244	1.08074	1.01923	0.94921	0.86545	0.79591	0.73516	0.67875
3774672.23	1.24988	1.17991	1.12453	1.06498	0.99219	0.90031	0.83250	0.76655	0.70497
3774652.92	1.29476	1.22967	1.16951	1.10399	1.02521	0.93722	0.86138	0.79171	0.73261
3774633.61	1.34726	1.27729	1.21980	1.14682	1.06569	0.97615	0.89607	0.82294	0.76098
3774614.30	1.39360	1.32766	1.27056	1.19202	1.11030	1.01807	0.94061	0.86086	0.79135
3774594.99	1.45988	1.39606	1.32107	1.24707	1.16259	1.06237	0.98089	0.89565	0.82112
3774575.68	1.53693	1.47225	1.38620	1.30141	1.21981	1.11030	1.02617	0.93525	0.85539
3774556.37	1.60325	1.54133	1.44181	1.36702	1.27758

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 1.16637      1.07219      0.97629      0.89055
  3774537.06 |       1.69800      1.60905      1.49744      1.43564      1.34262
 1.22554      1.12201      1.02170      0.93205
  3774517.75 |       1.78049      1.69928      1.57706      1.51569      1.41681
 1.29139      1.17576      1.07302      0.97835
  3774498.44 |       1.85132      1.79646      1.66328      1.59571      1.50270
 1.36064      1.23914      1.12993      1.02576
  3774479.13 |       1.93841      1.89409      1.74669      1.67844      1.57981
 1.43254      1.30951      1.17799      1.07729
  3774459.82 |       2.03833      2.00778      1.85712      1.77123      1.67520
 1.52074      1.37828      1.23727      1.11467
  3774440.51 |       2.15047      2.11504      1.97974      1.88255      1.77866
 1.61336      1.44390      1.32769      1.20467
  3774421.20 |       2.28490      2.26008      2.11544      2.00729      1.88961
 1.69684      1.59250      1.44256      1.29764
  3774401.89 |       2.46486      2.41741      2.27058      2.15841      1.99792
 1.86564      1.67900      1.47389      1.33090
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     480671.32    480750.39    480829.46    480908.53    480987.60
481066.67    481145.74    481224.81    481303.88
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       0.52846      0.49598      0.46724      0.44219      0.41792
 0.39418      0.37846      0.36164      0.34642
  3774768.78 |       0.54484      0.51028      0.48017      0.45505      0.42690
 0.40654      0.38903      0.37064      0.35454
  3774749.47 |       0.56557      0.52531      0.49562      0.46787      0.44094
 0.41970      0.39967      0.38069      0.36409
  3774730.16 |       0.58424      0.54130      0.51223      0.48201      0.45575
```

```
 0.43216      0.41156      0.39133      0.37572
  3774710.85 |       0.60221      0.55794      0.52846      0.49741      0.46924
 0.44554      0.42404      0.40202      0.38588
  3774691.54 |       0.62009      0.57569      0.54530      0.51283      0.48417
 0.45978      0.43672      0.41386      0.39766
  3774672.23 |       0.64081      0.59530      0.56127      0.52951      0.50046
 0.47409      0.45017      0.42761      0.41011
  3774652.92 |       0.66202      0.61591      0.58251      0.54867      0.51947
 0.48922      0.46430      0.44089      0.42261
  3774633.61 |       0.68589      0.63863      0.60088      0.56478      0.53527
 0.50468      0.47936      0.45434      0.43526
  3774614.30 |       0.71058      0.66279      0.62107      0.58519      0.55376
 0.52184      0.49611      0.47107      0.45032
  3774594.99 |       0.73799      0.68793      0.64487      0.60922      0.57360
 0.53985      0.51373      0.48742      0.46668
  3774575.68 |       0.76724      0.71538      0.67320      0.63331      0.59755
 0.55938      0.53218      0.50523      0.48142
  3774556.37 |       0.79940      0.74583      0.69744      0.65390      0.61645
 0.57988      0.55185      0.52188      0.49812
  3774537.06 |       0.83458      0.77750      0.72270      0.67728      0.63667
 0.60168      0.57175      0.54149      0.51423
  3774517.75 |       0.87556      0.81353      0.75671      0.70795      0.66339
 0.62450      0.59320      0.56192      0.53176
  3774498.44 |       0.91810      0.85078      0.79215      0.73827      0.69049
 0.64823      0.61436      0.57687      0.55061
  3774479.13 |       0.96310      0.89026      0.82969      0.77431      0.72173
 0.67382      0.63720      0.59543      0.56951
  3774459.82 |       1.01570      0.93186      0.86670      0.80309      0.74961
 0.69948      0.66123      0.61698      0.58840
  3774440.51 |       1.08410      0.97590      0.90499      0.83783      0.77781
 0.72459      0.68519      0.64277      0.60923
  3774421.20 |       1.17430      1.02796      0.96238      0.87780      0.80872
 0.75154      0.71062      0.66797      0.63000
  3774401.89 |       1.20685      1.07754      1.00114      0.93067      0.86302
 0.79795      0.73549      0.69319      0.65388
```



```
                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 481382.95	481462.02	481541.09
3774788.09	0.33383	0.31974	0.30346
3774768.78	0.34209	0.32802	0.31392
3774749.47	0.35124	0.33714	0.32372
3774730.16	0.36088	0.34673	0.33361
3774710.85	0.37103	0.35635	0.34356
3774691.54	0.38170	0.36646	0.35315
3774672.23	0.39344	0.37754	0.36318
3774652.92	0.40473	0.38724	0.37367
3774633.61	0.41660	0.39983	0.38506
3774614.30	0.43067	0.41298	0.39649
3774594.99	0.44537	0.42671	0.40794
3774575.68	0.45687	0.43899	0.41984
3774556.37	0.47113	0.45279	0.43314
3774537.06	0.48715	0.46662	0.44691
3774517.75	0.50440	0.48200	0.46017
3774498.44	0.52166	0.49950	0.46615
3774479.13	0.54071	0.51430	0.48306
3774459.82	0.55855	0.52843	0.51129
3774440.51	0.57567	0.54242	0.53206
3774421.20	0.59629	0.56607	0.55011
3774401.89	0.61730	0.57089	0.56738

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 , STCK9 ,

*** 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         479864.11    3774072.83       97.89784                      479887.91
3774070.12      102.52651
         479901.10    3774139.42       15.62386                      479776.30
3774149.50        9.50155
         479737.27    3774105.54       13.49267                      479857.06
3774101.60       61.46303
         479856.50    3774053.80      115.11383                      479923.42
3774050.99       63.29878
         479923.42    3774009.37       46.74880                      479737.84
3774014.43       11.63804
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479159.28    479197.54    479235.80    479274.06    479312.32
479350.58    479388.84    479427.10    479465.36
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |       4.56938      4.68000      4.79265      4.90675      5.02438
 5.14420      5.26198      5.37686      5.48359
  3774779.37 |       4.82474      4.94177      5.06344      5.18276      5.30912
 5.43853      5.56417      5.69053      5.81022
```

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  3774749.71 |       5.11014      5.23534      5.35908      5.49147      5.62512
 5.76332      5.90159      6.03819      6.17175
  3774720.05 |       5.41816      5.55235      5.68827      5.82772      5.97105
 6.11944      6.26138      6.41233      6.56318
  3774690.39 |       5.76313      5.90725      6.05251      6.19928      6.35257
 6.51375      6.66651      6.84265      7.00905
  3774660.73 |       6.15156      6.30197      6.45493      6.61915      6.78706
 6.95560      7.11685      7.30614      7.48726
  3774631.07 |       6.58952      6.75542      6.92193      7.09114      7.26533
 7.44187      7.61831      7.81973      8.01819
  3774601.41 |       7.08759      7.27346      7.45943      7.63980      7.81736
 8.01393      8.19399      8.41132      8.62923
  3774571.75 |       7.65948      7.86004      8.06058      8.25346      8.44890
 8.65726      8.85031      9.08453      9.32285
  3774542.09 |       8.30217      8.53110      8.75450      8.96877      9.17979
 9.39609      9.59638      9.85213     10.10715
  3774512.43 |       9.02403      9.29480      9.54875      9.79067     10.01259
10.25079     10.46947     10.71685     10.99371
  3774482.77 |       9.86017     10.17933     10.46633     10.73346     10.97548
11.22987     11.48079     11.73547     12.03991
  3774453.11 |      10.82094     11.20329     11.53319     11.83818     12.09809
12.38921     12.65512     12.93670     13.25679
  3774423.45 |      11.92680     12.39372     12.79027     13.14392     13.44382
13.74693     14.02302     14.32379     14.67308
  3774393.79 |      13.16867     13.78305     14.27790     14.69185     15.03448
15.36022     15.64623     15.98135     16.36538
  3774364.13 |      14.60210     15.38167     16.02404     16.53696     16.94581
17.31522     17.63764     17.98933     18.41476
  3774334.47 |      16.27117     17.28802     18.09389     18.73736     19.25741
19.71413     20.06137     20.44730     20.89541
  3774304.81 |      18.35215     19.68764     20.73205     21.53808     22.16843
22.69341     23.13005     23.55298     24.05806
  3774275.15 |      21.28171     23.10587     24.42212     25.40462     26.16619
26.89740     27.42772     27.94120     28.54046
  3774245.49 |      26.72529     29.30121     30.79874     31.88979     32.79734
33.63677     34.33665     35.01792     35.76649
  3774215.83 |      46.03015     49.07119     50.30637     51.14388     51.91176
52.68028     53.36242     54.06293     54.88592
```



```
                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                X-COORD (METERS)
    (METERS) |     479503.62    479541.88    479580.14    479618.40    479656.66
479694.92    479733.18    479771.44    479809.70
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774809.03 |       5.57834      5.65291      5.69521      5.73751      5.76462
 5.77314      5.77092      5.74201      5.69995
  3774779.37 |       5.92052      6.01435      6.05983      6.11447      6.14578
 6.16261      6.14923      6.10627      6.03880
  3774749.71 |       6.29531      6.40298      6.47525      6.52365      6.55474
 6.57012      6.57407      6.51597      6.46919
  3774720.05 |       6.70566      6.82951      6.93311      6.99297      7.02945
 7.04840      7.03436      6.96534      6.91931
  3774690.39 |       7.16575      7.30185      7.41531      7.48344      7.53003
 7.56893      7.54889      7.50048      7.43445
  3774660.73 |       7.66673      7.82181      7.96548      8.06665      8.11204
 8.15304      8.13396      8.08857      8.01308
  3774631.07 |       8.21873      8.40115      8.57389      8.69964      8.76942
 8.82023      8.80288      8.73858      8.66712
  3774601.41 |       8.84909      9.06036      9.25801      9.40787      9.47445
 9.55942      9.55467      9.46227      9.37925
  3774571.75 |       9.57000      9.80518     10.03163     10.20167     10.30116
10.40518     10.41615     10.31756     10.22143
  3774542.09 |      10.38106     10.65104     10.90864     11.10816     11.25997
11.40238     11.41404     11.30868     11.18708
  3774512.43 |      11.30269     11.62019     11.92351     12.19111     12.41033
12.55127     12.58046     12.46824     12.32423
  3774482.77 |      12.37897     12.73879     13.09162     13.40040     13.68091
13.88278     13.93728     13.84140     13.67201
  3774453.11 |      13.62776     14.04291     14.46821     14.86907     15.20204
15.44655     15.55180     15.49300     15.29738
  3774423.45 |      15.09415     15.57881     16.09994     16.62812     17.07823
17.41710     17.58120     17.53786     17.27871
  3774393.79 |      16.83279     17.40271     18.05799     18.73057     19.34350
19.84588     20.08598     20.06638     19.69326
  3774364.13 |      18.94326     19.60750     20.43657     21.32851     22.22208
```

22.97026 23.41153 23.36243 22.82852
3774334.47 | 21.52106 22.33289 23.41281 24.59931 25.86382
26.98509 27.68869 27.71917 26.96511
3774304.81 | 24.78727 25.79844 27.17170 28.83510 30.68281
32.40143 33.52691 33.67057 32.68168
3774275.15 | 29.37104 30.62399 32.43814 34.73731 37.50006
40.22909 42.08733 42.39105 40.87803
3774245.49 | 36.83980 38.35490 40.67521 44.01887 48.25567
52.85610 56.33705 56.90875 54.31148
3774215.83 | 56.05090 57.83075 60.77340 65.39199 72.06733
80.24009 87.12105 88.32681 82.94298

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479847.96	479886.22	479924.48
3774809.03	5.65033	5.58325	5.50203
3774779.37	6.00365	5.92799	5.84197
3774749.71	6.40529	6.31391	6.21621
3774720.05	6.83476	6.74284	6.63561
3774690.39	7.34433	7.22551	7.10855
3774660.73	7.91500	7.79288	7.62870
3774631.07	8.54763	8.40361	8.22010
3774601.41	9.24798	9.08675	8.88070
3774571.75	10.06749	9.86681	9.62223

```
  3774542.09 |      11.00160     10.76267     10.46965
  3774512.43 |      12.10221     11.80769     11.45470
  3774482.77 |      13.40802     13.04312     12.59959
  3774453.11 |      14.95591     14.50740     13.94633
  3774423.45 |      16.85187     16.27511     15.58786
  3774393.79 |      19.15550     18.38207     17.52077
  3774364.13 |      22.06501     21.04987     19.90740
  3774334.47 |      25.85891     24.45135     22.91353
  3774304.81 |      30.98762     28.98055     26.83182
  3774275.15 |      38.30063     35.27136     32.26517
  3774245.49 |      49.82863     45.06977     40.80534
  3774215.83 |      74.18422     66.36619     59.76835
```



```
                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     479959.69    480038.76    480117.83    480196.90    480275.97
480355.04    480434.11    480513.18    480592.25
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       5.64334      5.28258      5.01599      4.75530      4.49368
 4.23776      3.98361      3.73326      3.50790
  3774768.78 |       5.85674      5.49156      5.18319      4.91214      4.64928
 4.37738      4.10916      3.84306      3.61511
  3774749.47 |       6.10780      5.71453      5.37658      5.07213      4.78726
 4.50694      4.23616      3.95819      3.72164
  3774730.16 |       6.36274      5.98795      5.63903      5.29264      4.96630
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 4.65545      4.36957      4.08769      3.84814
  3774710.85 |       6.64767      6.29104      5.87401      5.51792      5.15505
 4.81113      4.51543      4.23288      3.98093
  3774691.54 |       6.95620      6.61915      6.19837      5.75784      5.37341
 4.98158      4.66752      4.38513      4.12145
  3774672.23 |       7.28293      6.90750      6.44957      5.98893      5.58403
 5.16232      4.84777      4.55175      4.27097
  3774652.92 |       7.61429      7.21291      6.68839      6.20761      5.77107
 5.35347      5.00929      4.69884      4.42783
  3774633.61 |       7.97816      7.53242      6.97318      6.44133      5.98441
 5.55538      5.19211      4.86703      4.58564
  3774614.30 |       8.35715      7.87523      7.22643      6.69077      6.21798
 5.77068      5.40615      5.05327      4.75308
  3774594.99 |       8.79337      8.26544      7.52916      6.97509      6.47675
 5.99907      5.61383      5.23941      4.92436
  3774575.68 |       9.27446      8.68997      7.88672      7.26853      6.75907
 6.24370      5.83797      5.44448      5.11019
  3774556.37 |       9.77475      9.12928      8.22674      7.60271      7.05197
 6.51412      6.06793      5.66277      5.30821
  3774537.06 |      10.35208      9.59600      8.57994      7.95946      7.37429
 6.80319      6.31970      5.89543      5.52901
  3774517.75 |      10.95706     10.12603      9.00713      8.35677      7.72454
 7.11174      6.59157      6.15509      5.77084
  3774498.44 |      11.59810     10.70194      9.48705      8.77271      8.11796
 7.44346      6.90156      6.43731      6.02432
  3774479.13 |      12.31709     11.31853      9.98179      9.20657      8.50739
 7.79637      7.22926      6.71394      6.29564
  3774459.82 |      13.12027     12.00252     10.56880      9.69633      8.94832
 8.19911      7.57702      7.02779      6.52252
  3774440.51 |      14.01611     12.73519     11.22270     10.24875      9.43044
 8.63280      7.94216      7.42475      6.94867
  3774421.20 |      15.03171     13.57574     11.95175     10.86548      9.95495
 9.07498      8.47179      7.87276      7.34795
  3774401.89 |      16.20624     14.50665     12.92741     11.62641     10.50969
 9.69988      8.93178      8.23898      7.69554
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 480671.32	480750.39	480829.46	480908.53	480987.60	481066.67	481145.74	481224.81	481303.88
3774788.09	3.26079	3.09763	2.94591	2.80683	2.66366	2.51748	2.41020	2.28870	2.17360
3774768.78	3.36469	3.18989	3.03270	2.89334	2.73042	2.60186	2.48473	2.35334	2.23239
3774749.47	3.49229	3.28690	3.13321	2.97992	2.82427	2.69076	2.55992	2.42589	2.29991
3774730.16	3.60809	3.38924	3.23928	3.07592	2.92294	2.77812	2.64273	2.50204	2.38068
3774710.85	3.71794	3.49699	3.34612	3.17733	3.01535	2.87026	2.72995	2.57928	2.45412
3774691.54	3.82769	3.61103	3.45466	3.27982	3.11701	2.96752	2.81951	2.66536	2.53795
3774672.23	3.95125	3.73261	3.55974	3.38916	3.22544	3.06696	2.91470	2.76334	2.62708
3774652.92	4.08166	3.86146	3.69210	3.51348	3.34808	3.17265	3.01555	2.86011	2.71966
3774633.61	4.22176	3.99929	3.81199	3.62404	3.45808	3.28179	3.12352	2.96020	2.81491
3774614.30	4.37050	4.14617	3.94497	3.75582	3.58371	3.40205	3.24229	3.08086	2.92861
3774594.99	4.53068	4.30245	4.09367	3.90637	3.71810	3.53071	3.36961	3.20246	3.05242
3774575.68	4.70809	4.47042	4.26401	4.06186	3.87360	3.66852	3.50501	3.33515	3.17048
3774556.37	4.89375	4.65185	4.41973	4.20585	4.01246	3.81578	3.64973	3.46786	3.30367
3774537.06	5.10105	4.84138	4.58765	4.37029	4.16261	3.97443	3.80161	3.61960	3.44065
3774517.75	5.32187	5.05328	4.79717	4.56772	4.34862	4.14491	3.96781	3.78226	3.59156
3774498.44	5.56013	5.28125	5.01785	4.77101	4.54127	4.32838	4.14083	3.93203	3.75769
3774479.13	5.81898	5.52364	5.25613	5.00406	4.76013	4.52742	4.33107	4.10708	3.93465

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  3774459.82 |       6.11752      5.78300      5.50061      5.22521      4.97837
 4.73923      4.53693      4.30696      4.12423
  3774440.51 |       6.48772      6.06738      5.76741      5.48098      5.21331
 4.96361      4.75759      4.53713      4.33608
  3774421.20 |       6.89828      6.39457      6.11363      5.77177      5.47465
 5.21263      5.00051      4.78079      4.56543
  3774401.89 |       7.21605      6.74112      6.42309      6.11319      5.81418
 5.53204      5.26212      5.04281      4.82470
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     481382.95    481462.02    481541.09
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

  3774788.09 |       2.06926      1.95137      1.81358
  3774768.78 |       2.12727      2.00798      1.88330
  3774749.47 |       2.19141      2.07013      1.94896
  3774730.16 |       2.25939      2.13627      2.01437
  3774710.85 |       2.33121      2.20364      2.08089
  3774691.54 |       2.40784      2.27493      2.14690
  3774672.23 |       2.49239      2.35395      2.21673
  3774652.92 |       2.57650      2.42675      2.29131
  3774633.61 |       2.66645      2.51905      2.37303
  3774614.30 |       2.77091      2.61654      2.45787
  3774594.99 |       2.88343      2.72091      2.54601
  3774575.68 |       2.98295      2.82225      2.64057
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  3774556.37 |       3.10272      2.93642      2.74769
  3774537.06 |       3.23779      3.05713      2.86300
  3774517.75 |       3.38735      3.19305      2.98170
  3774498.44 |       3.54502      3.34853      3.06701
  3774479.13 |       3.72732      3.50079      3.22335
  3774459.82 |       3.91330      3.66302      3.44469
  3774440.51 |       4.10777      3.83840      3.63912
  3774421.20 |       4.34079      4.07812      3.82907
  3774401.89 |       4.59096      4.24790      4.03598
```



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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 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
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         479864.11    3774072.83      200.66543                     479887.91
3774070.12      177.05681
         479901.10    3774139.42       77.15929                     479776.30
3774149.50      195.74166
         479737.27    3774105.54      804.66854                     479857.06
3774101.60      172.78053
         479856.50    3774053.80      223.30648                     479923.42
3774050.99      113.19999
         479923.42    3774009.37       89.42590                     479737.84
3774014.43      223.57435
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS ***
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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32
3774809.0	5.63764 (12121607)	5.61933 (12021321)	5.72702 (12021321)	5.77973 (12021321)	5.98842 (14022508)
3774779.4	5.88586 (12121607)	5.83927 (12021321)	5.94973 (12021321)	6.01379 (14022508)	6.24927 (14022508)
3774749.7	6.15458 (12121607)	6.09189 (12121607)	6.19080 (12021321)	6.30144 (14022508)	6.53089 (14022508)
3774720.0	6.43484 (12121607)	6.37809 (12121607)	6.45417 (12021321)	6.61540 (14022508)	6.83614 (14022508)
3774690.4	6.73819 (12121607)	6.68760 (12121607)	6.74201 (12021321)	6.95873 (14022508)	7.16737 (14022508)
3774660.7	7.06881 (12121607)	7.01967 (12121607)	7.05630 (12021321)	7.33612 (14022508)	7.52883 (14022508)
3774631.1	7.42920 (12121607)	7.38810 (12121607)	7.41015 (12021321)	7.75224 (14022508)	7.92298 (14022508)
3774601.4	7.82794 (12121607)	7.79464 (12121607)	7.87997 (14022508)	8.21456 (14022508)	8.35692 (14022508)
3774571.7	8.27619 (12121607)	8.24073 (12121607)	8.41473 (14022508)	8.72742 (14022508)	8.83513 (14022508)
3774542.1	8.77202 (12121607)	8.73805 (12121607)	9.02159 (14022508)	9.30090 (14022508)	9.36483 (14022508)
3774512.4	9.32668 (12121607)	9.29483 (12121607)	9.71430 (14022508)		

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     9.94497 (14022508)      9.95585 (14022508)
 3774482.8 |      9.97220 (12121607)      9.95534 (12021321)     10.51145 (14022508)
    10.67268 (14022508)     10.62078 (14022508)
 3774453.1 |     10.72672 (12121607)     10.88209 (14022508)     11.43642 (14022508)
    11.50133 (14022508)     11.37717 (14022508)
 3774423.4 |     11.63162 (12121607)     12.05166 (14022508)     12.52109 (14022508)
    12.45517 (14022508)     12.25680 (14022508)
 3774393.8 |     12.72773 (12021321)     13.49035 (14022508)     13.80586 (14022508)
    13.56811 (14022508)     13.29995 (14022508)
 3774364.1 |     14.31377 (12021321)     15.29322 (14022508)     15.34238 (14022508)
    14.89645 (14022508)     14.61776 (13063006)
 3774334.5 |     16.52398 (14120316)     17.60558 (14022508)     17.20553 (14022508)
    16.87728 (14120316)     18.46282 (12022716)
 3774304.8 |     21.29534 (14120316)     21.85512 (14120316)     22.03826 (14120316)
    22.50743 (12022716)     23.92006 (12022716)
 3774275.1 |     29.13803 (14120316)     30.28934 (14120316)     30.50987 (14120316)
    31.66937 (12022716)     31.36567 (12022716)
 3774245.5 |     44.52754 (14120316)     47.01884 (14120316)     47.12463 (14120316)
    46.84727 (14120316)     46.48130 (14120316)
 3774215.8 |     92.63021 (14120316)     95.07795 (14120316)     94.27878 (14120316)
    93.07462 (14120316)     92.17193 (14120316)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479350.58               479388.84               479427.10
      479465.36               479503.62
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

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 3774809.0 |      6.13896 (14022508)      6.22321 (14022508)      6.26296 (14022508)
     6.27614 (14022508)      6.26345 (14022508)
 3774779.4 |      6.39077 (14022508)      6.46528 (14022508)      6.49681 (14022508)
     6.50484 (14022508)      6.49959 (14022508)
 3774749.7 |      6.66115 (14022508)      6.72370 (14022508)      6.74652 (14022508)
     6.74928 (14022508)      6.74219 (14022508)
 3774720.0 |      6.95270 (14022508)      7.00205 (14022508)      7.01581 (14022508)
     7.01426 (14022508)      7.00695 (14022508)
 3774690.4 |      7.26768 (14022508)      7.30186 (14022508)      7.30670 (14022508)
     7.30062 (14022508)      7.29330 (14022508)
 3774660.7 |      7.60923 (14022508)      7.62668 (14022508)      7.62373 (14022508)
     7.61511 (14022508)      7.60890 (14022508)
 3774631.1 |      7.98001 (14022508)      7.98041 (14022508)      7.96974 (14022508)
     7.95971 (14022508)      7.95626 (14022508)
 3774601.4 |      8.38872 (14022508)      8.37172 (14022508)      8.35390 (14022508)
     8.34326 (14022508)      8.34216 (14022508)
 3774571.7 |      8.83740 (14022508)      8.80589 (14022508)      8.78231 (14022508)
     8.77249 (14022508)      8.77434 (14022508)
 3774542.1 |      9.33522 (14022508)      9.29037 (14022508)      9.26406 (14022508)
     9.25694 (14022508)      9.26260 (14022508)
 3774512.4 |      9.89301 (14022508)      9.83900 (14022508)      9.81282 (14022508)
     9.81006 (14022508)      9.81979 (14022508)
 3774482.8 |     10.52799 (14022508)     10.46707 (14022508)     10.44646 (14022508)
    10.44901 (14022508)     10.46159 (14022508)
 3774453.1 |     11.26006 (14022508)     11.20045 (14022508)     11.18755 (14022508)
    11.19611 (14022508)     11.21129 (14022508)
 3774423.4 |     12.12337 (14022508)     12.07377 (14022508)     12.07156 (14022508)
    12.51909 (12022716)     12.75226 (12022716)
 3774393.8 |     13.16691 (14022508)     13.60906 (12022716)     14.19740 (12022716)
    14.44064 (12022716)     14.52171 (12022716)
 3774364.1 |     15.72643 (12022716)     16.44542 (12022716)     16.68890 (12022716)
    16.72462 (12022716)     16.66915 (12022716)
 3774334.5 |     19.60378 (12022716)     19.77198 (12022716)     19.71189 (12022716)
    19.49252 (12022716)     19.38731 (12022716)
 3774304.8 |     24.17900 (12022716)     23.92448 (12022716)     23.56396 (12022716)
    23.22760 (12022716)     23.09835 (12022716)
 3774275.1 |     31.31501 (12022716)     30.58578 (12022716)     30.06648 (12022716)
    29.68068 (12022716)     29.41888 (12022716)
 3774245.5 |     45.97576 (14120316)     45.56238 (14120316)     45.10480 (14120316)
    44.63030 (14120316)     43.95693 (14120316)
 3774215.8 |     91.13915 (14120316)     90.21316 (14120316)     89.23427 (14120316)
    88.13934 (14120316)     87.06029 (14120316)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                   X-COORD (METERS)
  (METERS) |       479541.88               479580.14               479618.40
      479656.66               479694.92
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |      6.21650 (14022508)      6.14262 (14022508)      6.24417 (12121601)
     6.52226 (12121601)      6.74172 (12121601)
 3774779.4 |      6.46900 (14022508)      6.37703 (14022508)      6.44828 (12121601)
     6.70014 (12121601)      6.79686 (12121601)
 3774749.7 |      6.72975 (14022508)      6.65475 (14022508)      6.73796 (12121601)
     6.98695 (12121601)      7.10715 (12121601)
 3774720.0 |      6.99551 (14022508)      6.96013 (14022508)      6.91895 (12121601)
     7.13520 (12121601)      7.23368 (12121601)
 3774690.4 |      7.28531 (14022508)      7.24402 (14022508)      7.32498 (12121601)
     7.47868 (12121601)      7.48194 (12121601)
 3774660.7 |      7.60335 (14022508)      7.58057 (14022508)      7.53451 (12121601)
     7.74388 (12121601)      7.74009 (12121601)
 3774631.1 |      7.95401 (14022508)      7.94515 (14022508)      7.89805 (14022508)
     8.03585 (12121601)      8.04148 (12121601)
 3774601.4 |      8.34432 (14022508)      8.34013 (14022508)      8.31656 (12121601)
     8.46003 (12121601)      8.40802 (12121601)
 3774571.7 |      8.78095 (14022508)      8.78147 (14022508)      8.81777 (12121601)
     8.86708 (12121601)      8.81554 (12121601)
 3774542.1 |      9.27324 (14022508)      9.26539 (14022508)      9.32921 (12121601)
     9.31828 (12121601)      9.38826 (12071219)
 3774512.4 |      9.83327 (14022508)      9.84342 (14022508)      9.85878 (12121601)
     9.84148 (12121601)     10.13514 (12071219)
 3774482.8 |     10.47704 (14022508)     10.49626 (12121601)     10.57654 (12071219)
    10.92374 (12071219)     11.13663 (12071219)
 3774453.1 |     11.41409 (12022716)     11.52116 (12022716)     11.57200 (12022716)
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    12.06744 (12071219)     12.29132 (12071219)
 3774423.4 |     12.85027 (12022716)     12.88718 (12022716)     12.89440 (12022716)
    13.02283 (12071219)     13.25321 (12071219)
 3774393.8 |     14.53273 (12022716)     14.53822 (12022716)     14.52529 (12022716)
    14.51288 (12022716)     14.48804 (12022716)
 3774364.1 |     16.59344 (12022716)     16.58170 (12022716)     16.52236 (12022716)
    16.49398 (12022716)     16.42247 (12022716)
 3774334.5 |     19.25008 (12022716)     19.35882 (12022716)     19.21136 (12022716)
    19.22358 (12022716)     19.05597 (12022716)
 3774304.8 |     22.97343 (12022716)     22.94963 (12022716)     22.90196 (12022716)
    22.81468 (12022716)     22.73414 (12022716)
 3774275.1 |     29.24627 (12022716)     29.33070 (12022716)     29.09231 (12022716)
    29.00219 (12022716)     28.89250 (12022716)
 3774245.5 |     43.56448 (14120316)     43.01246 (14120316)     42.30126 (14120316)
    41.76386 (14120316)     41.09185 (14120316)
 3774215.8 |     86.05286 (14120316)     84.99549 (14120316)     83.80405 (14120316)
    82.53687 (14120316)     81.38829 (12041107)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                  PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  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    ,  . . .      ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479733.18              479771.44              479809.70
      479847.96              479886.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |      6.80613 (12121601)      6.97797 (12121601)      7.08555 (12121601)
     7.10448 (12081701)      7.45088 (12081701)
```

```
 3774779.4 |      6.95030 (12121601)      7.23984 (12121601)      7.61529 (12041203)
     7.55981 (12081701)      7.90629 (12081701)
 3774749.7 |      7.10148 (12121601)      7.44531 (12121601)      7.59161 (12081701)
     7.85315 (12081701)      8.24817 (12081701)
 3774720.0 |      7.33844 (12121601)      7.77788 (12081701)      7.97819 (12081701)
     8.40774 (12081701)      8.56518 (12081701)
 3774690.4 |      7.58966 (12121601)      7.72017 (12121601)      8.10108 (12081701)
     8.41638 (12080105)      8.78735 (12080105)
 3774660.7 |      7.81267 (12121601)      8.02836 (12080105)      8.42699 (12080105)
     8.80503 (12071219)      9.07741 (12071219)
 3774631.1 |      8.06614 (12121601)      8.59019 (12071219)      8.89101 (12071219)
     9.30420 (12071219)      9.55923 (12071219)
 3774601.4 |      8.52571 (12071219)      9.39956 (12071219)      9.67401 (12071219)
     9.97561 (12071219)     10.08261 (12071219)
 3774571.7 |      9.16364 (12071219)     10.02123 (12071219)     10.23567 (12071219)
    10.44870 (12071219)     10.60516 (12071219)
 3774542.1 |      9.82993 (12071219)     10.61943 (12071219)     10.86454 (12071219)
    11.02938 (12071219)     11.14292 (12071219)
 3774512.4 |     10.53440 (12071219)     11.20172 (12071219)     11.41529 (12071219)
    11.56852 (12071219)     11.66327 (12071219)
 3774482.8 |     11.41921 (12071219)     11.91038 (12071219)     12.04028 (12071219)
    12.08502 (12071219)     12.16297 (12071219)
 3774453.1 |     12.45079 (12071219)     12.64386 (12071219)     12.61002 (12071219)
    12.75692 (12071219)     12.77376 (12071219)
 3774423.4 |     13.31214 (12071219)     13.36748 (12071219)     13.43286 (12071219)
    13.37127 (12071219)     13.41993 (12071219)
 3774393.8 |     14.49069 (12071219)     14.47191 (12071219)     14.61982 (12071219)
    14.51890 (12022716)     14.62891 (12092019)
 3774364.1 |     16.30505 (12022716)     16.34898 (12022716)     16.53564 (12022716)
    16.60401 (12022716)     16.64507 (12022716)
 3774334.5 |     18.85424 (12022716)     18.85316 (12022716)     19.31019 (12022716)
    19.42999 (12022716)     19.37517 (12022716)
 3774304.8 |     22.66838 (12022716)     22.67189 (12022716)     22.93030 (12022716)
    23.39558 (12022716)     23.17419 (12022716)
 3774275.1 |     28.87247 (12022716)     28.77689 (12022716)     29.29039 (12022716)
    29.36762 (12022716)     29.27295 (12022716)
 3774245.5 |     40.75982 (14120316)     40.47710 (14120316)     40.80419 (12022716)
    41.26768 (12022716)     40.75651 (12022716)
 3774215.8 |     80.62495 (12041107)     79.64918 (12041107)     78.65862 (12041107)
    76.74324 (14120316)     76.65483 (14120316)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
```

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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 479924.48
3774809.0	7.76882 (12081701)
3774779.4	8.09335 (12081701)
3774749.7	8.39449 (12081701)
3774720.0	8.59030 (12081701)
3774690.4	9.00419 (12071219)
3774660.7	9.45552 (12071219)
3774631.1	9.85307 (12071219)
3774601.4	10.24211 (12071219)
3774571.7	10.72716 (12071219)
3774542.1	11.23402 (12071219)
3774512.4	11.71725 (12071219)
3774482.8	12.24631 (12071219)
3774453.1	12.92498 (12071219)
3774423.4	13.57120 (12092019)
3774393.8	14.70510 (12092019)
3774364.1	16.61820 (12022716)
3774334.5	19.24914 (12022716)
3774304.8	22.97788 (12022716)
3774275.1	28.70115 (12022716)
3774245.5	39.15843 (12022716)
3774215.8	75.01439 (14120316)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TRUCKS ***
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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479959.69	480038.76	480117.83	480196.90	480275.97
3774788.1	8.24809 (12081701)	8.54022 (12081701)	8.71836 (12081701)	9.00610 (12071219)	9.15023 (12071219)
3774768.8	8.54515 (12081701)	8.63091 (12081701)	9.03746 (12071219)	9.27823 (12071219)	9.35963 (14040821)
3774749.5	8.61911 (12081701)	8.83451 (12071219)	9.32662 (12071219)	9.56983 (12071219)	9.75245 (14040821)
3774730.2	8.79102 (12081701)	9.10012 (12071219)	9.35543 (12071219)	9.65711 (12071219)	9.89943 (14040821)
3774710.8	8.97556 (12071219)	9.29844 (12071219)	9.51709 (12071219)	9.72082 (12071219)	10.01490 (14040821)
3774691.5	9.17587 (12071219)	9.48174 (12071219)	9.53033 (12071219)	9.64338 (12071219)	9.88178 (12071222)
3774672.2	9.37339 (12071219)	9.66798 (12071219)	9.74650 (12071219)	9.73560 (12071219)	10.05980 (12071222)
3774652.9	9.72668 (12071219)	9.92120 (12071219)	10.01182 (12071219)	10.07408 (12071219)	10.59364 (12071222)
3774633.6	10.02680 (12071219)	10.25806 (12071219)	10.22737 (12071219)	10.58202 (12071222)	10.99059 (12071222)
3774614.3	10.47049 (12071219)	10.56197 (12071219)	10.53560 (12071219)	11.03933 (12071222)	11.27266 (12071222)
3774595.0	10.61790 (12071219)	10.67323 (12071219)	10.86913 (12071219)	11.35837 (12071222)	11.42907 (13090224)
3774575.7	10.70490 (12071219)	10.73231 (12071219)	11.09102 (12071222)	11.75380 (12071222)	11.60880 (13090224)
3774556.4	11.01105 (12071219)	11.00439 (12071219)	11.71521 (12071222)	12.00722 (13090224)	11.87002 (12092123)
3774537.1	11.02800 (12071219)	11.38308 (12071219)	12.69236 (12071222)	12.37879 (13090224)	12.02785 (12092123)

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 3774517.7 |     11.32587 (12071219)     11.55953 (12071219)     13.19379 (13090224)
    12.57271 (12092123)     12.23612 (12092123)
 3774498.4 |     11.84144 (12071219)     11.85692 (12092019)     13.61734 (13090224)
    12.85122 (12092123)     12.28580 (12080223)
 3774479.1 |     12.32996 (12071219)     12.29831 (12092019)     14.23765 (13090224)
    13.40660 (12092123)     12.79313 (13081722)
 3774459.8 |     12.79100 (12071219)     12.72948 (12092019)     14.45573 (12092123)
    13.85920 (12080223)     13.26754 (13081722)
 3774440.5 |     13.33658 (12092019)     13.31426 (12052222)     14.53036 (12080223)
    14.22737 (13081722)     13.75277 (13081722)
 3774421.2 |     13.85195 (12092019)     13.93573 (12052222)     14.89066 (13081722)
    14.70054 (13081722)     14.31206 (13081722)
 3774401.9 |     14.31293 (12092019)     14.55649 (12052222)     15.34929 (13081722)
    15.11160 (13081722)     15.17447 (13081722)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       480355.04              480434.11              480513.18
      480592.25              480671.32
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |      9.39451 (14040821)      9.54890 (14040821)      9.65258 (12071222)
     9.77606 (12071222)      9.91063 (12081324)
 3774768.8 |      9.56784 (14040821)      9.69296 (14040821)      9.93120 (12071222)
     9.97161 (12071222)     10.01163 (12081324)
 3774749.5 |      9.87524 (14040821)      9.97608 (12071222)     10.19871 (12071222)
```

```
    10.17510 (12071222)     10.21316 (13090224)
 3774730.2 |     10.08226 (14040821)     10.28564 (12071222)     10.42660 (12071222)
    10.31142 (12071222)     10.45279 (13090224)
 3774710.8 |     10.35068 (12071222)     10.55009 (12071222)     10.60633 (12071222)
    10.56942 (13090224)     10.71530 (13090224)
 3774691.5 |     10.65177 (12071222)     10.79397 (12071222)     10.75014 (12071222)
    10.81420 (13090224)     11.02229 (12081522)
 3774672.2 |     10.92254 (12071222)     10.84190 (12071222)     10.92108 (13090224)
    11.01827 (13090224)     11.29134 (12081522)
 3774652.9 |     11.15430 (12071222)     11.13771 (13090224)     11.29042 (13090224)
    11.18016 (12081522)     11.55869 (13090822)
 3774633.6 |     11.36197 (12071222)     11.45941 (13090224)     11.53135 (13090224)
    11.37537 (12081522)     11.93974 (13090822)
 3774614.3 |     11.58443 (13090224)     11.45468 (13090224)     11.67365 (13090224)
    11.67175 (13090822)     12.30019 (13090822)
 3774595.0 |     11.89627 (13090224)     11.64208 (13090224)     11.97983 (13090822)
    12.00764 (13090822)     12.63799 (13090822)
 3774575.7 |     12.12951 (13090224)     11.76435 (13090905)     12.27801 (13090822)
    12.30927 (13090822)     12.93863 (12081122)
 3774556.4 |     12.24439 (13090224)     12.26021 (13090822)     12.50529 (13090822)
    12.68438 (12081122)     13.41154 (12081122)
 3774537.1 |     12.35051 (13090905)     12.60997 (13090822)     12.87242 (12081122)
    13.00540 (12081122)     13.82380 (12081122)
 3774517.7 |     12.65583 (12081223)     13.02900 (12081223)     13.12936 (12081122)
    13.15026 (12081122)     14.23847 (12081122)
 3774498.4 |     12.96953 (12081223)     13.03528 (12081223)     13.20112 (12081122)
    13.45904 (13071323)     14.62096 (12081122)
 3774479.1 |     13.39357 (13081722)     13.40152 (12081122)     14.06840 (12081122)
    14.09105 (13071323)     15.10539 (13071323)
 3774459.8 |     13.61965 (13081722)     13.93589 (13071323)     14.91680 (13071323)
    15.58597 (13071323)     15.47409 (13071823)
 3774440.5 |     13.97199 (13081722)     15.00758 (13071323)     14.45843 (13071823)
    14.55395 (13071823)     15.31234 (13071823)
 3774421.2 |     14.93308 (13071823)     13.73466 (14061006)     13.77229 (14061006)
    13.92362 (14061006)     13.94150 (14061006)
 3774401.9 |     14.31886 (12082819)     14.73093 (14061006)     16.40064 (13071823)
    16.34399 (13071823)     16.15208 (12083023)
```



```
                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 480750.39	480829.46	480908.53	480987.60	481066.67
3774788.1	9.84849 (13090224)	9.87706 (12081522)	9.83439 (12081522)	9.83000 (13070303)	9.93600 (13070303)
3774768.8	10.08838 (13090224)	10.09545 (12081522)	9.98414 (13081201)	10.12220 (13070303)	10.07829 (13070303)
3774749.5	10.31731 (12081522)	10.24904 (12081522)	10.21080 (13090822)	10.29116 (13070303)	10.21314 (13070323)
3774730.2	10.55923 (12081522)	10.37223 (12081522)	10.45448 (13090822)	10.43316 (13090822)	10.44239 (13070323)
3774710.8	10.77901 (12081522)	10.62994 (13090822)	10.66493 (13090822)	10.62407 (13070323)	10.63731 (13070323)
3774691.5	10.97544 (12081522)	10.89820 (13090822)	10.86577 (13090822)	10.83885 (13070323)	10.85175 (12081122)
3774672.2	11.29852 (13090822)	11.19494 (13090822)	11.04314 (12081122)	11.10355 (12081122)	11.08861 (12081122)
3774652.9	11.59960 (13090822)	11.35160 (13090822)	11.31360 (12081122)	11.28870 (12081122)	11.29734 (12081122)
3774633.6	11.87321 (13090822)	11.67907 (12081122)	11.69605 (12081122)	11.57158 (12081122)	11.50031 (12081122)
3774614.3	12.11686 (13090822)	12.05057 (12081122)	11.96169 (12081122)	11.76643 (12081122)	11.76292 (13071323)
3774595.0	12.47468 (12081122)	12.36127 (12081122)	12.12024 (12081122)	12.01310 (13071323)	12.01520 (13071323)
3774575.7	12.84187 (12081122)	12.54936 (12081122)	12.31340 (13071323)	12.15252 (13071323)	12.27726 (13082403)
3774556.4	13.17191 (12081122)	12.91177 (12081122)	12.76167 (13071323)	12.54357 (13071823)	12.57587 (13082403)
3774537.1	13.50823 (12081122)	13.36312 (13071323)	13.10748 (13071323)	13.02981 (13071823)	12.86150 (13071823)
3774517.7	13.82500 (13071323)	13.57632 (13071323)	13.37879 (13071823)	13.25606 (13071823)	13.18016 (12092424)
3774498.4	14.17318 (13071323)	13.89960 (13071823)	13.70071 (13071823)	13.55539 (12092424)	13.61138 (12092424)

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 3774479.1 |     14.62522 (13071823)     14.18811 (13071823)     13.77425 (12092424)
    13.80935 (12092424)     13.98051 (12092424)
 3774459.8 |     15.17766 (13071823)     14.61316 (13071823)     14.47632 (12092424)
    14.29808 (12092424)     14.35756 (12092424)
 3774440.5 |     15.70407 (13071823)     15.20906 (12092424)     14.93772 (12092424)
    14.84626 (13071124)     15.01396 (13071124)
 3774421.2 |     16.19481 (12092424)     14.62581 (12083023)     15.16531 (13071124)
    15.46441 (13071124)     15.59493 (13070101)
 3774401.9 |     16.90196 (12092424)     15.54586 (13071124)     14.66668 (12101419)
    14.39658 (12101419)     14.74878 (12101419)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       481145.74              481224.81              481303.88
      481382.95              481462.02
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |      9.80979 (13070323)      9.79760 (13070323)      9.74005 (12081705)
     9.73118 (12081705)      9.71372 (12081705)
 3774768.8 |     10.03668 (13070323)      9.99380 (13070323)     10.02070 (12081705)
     9.93883 (12081705)      9.85776 (12081705)
 3774749.5 |     10.24922 (13070323)     10.22705 (12081705)     10.24335 (12081705)
    10.10600 (12081705)      9.96001 (12081705)
 3774730.2 |     10.41722 (13070323)     10.48202 (12081705)     10.39265 (12081705)
    10.24549 (12081705)     10.13185 (12082922)
 3774710.8 |     10.62039 (12081705)     10.72413 (12081705)     10.57528 (12081705)
```

```
    10.38905 (12082922)     10.32311 (12082922)
 3774691.5 |     10.86220 (12081705)     10.92592 (12081705)     10.69136 (12081705)
    10.60222 (12082922)     10.48315 (12082922)
 3774672.2 |     11.07338 (12081705)     11.05325 (12081705)     10.87567 (12082922)
    10.76478 (12082922)     10.59722 (12082922)
 3774652.9 |     11.24995 (12081705)     11.21072 (13070302)     11.08251 (12082922)
    10.93835 (12082922)     10.79757 (12081401)
 3774633.6 |     11.42817 (13070302)     11.46639 (12082922)     11.28056 (12082922)
    11.11194 (13082403)     10.98811 (12080405)
 3774614.3 |     11.62263 (13071323)     11.65283 (13082403)     11.49698 (13082403)
    11.33679 (12080405)     11.23922 (12080405)
 3774595.0 |     11.91346 (13082403)     11.90628 (13082403)     11.69931 (12080405)
    11.61038 (12080405)     11.45506 (12080405)
 3774575.7 |     12.16429 (13082403)     12.08979 (13082403)     12.04961 (12080405)
    11.98803 (12080405)     11.71912 (12080405)
 3774556.4 |     12.36350 (13082403)     12.44448 (12080405)     12.32480 (12092424)
    12.26376 (12092424)     12.00647 (12092424)
 3774537.1 |     12.68263 (12092424)     12.74461 (12092424)     12.71473 (12092424)
    12.56967 (12092424)     12.30629 (12080605)
 3774517.7 |     13.04760 (12092424)     13.04694 (12092424)     13.04849 (12092424)
    12.84937 (12080605)     12.68003 (12080605)
 3774498.4 |     13.44791 (12092424)     13.63386 (12092424)     13.34586 (13071124)
    13.24083 (12080605)     12.93196 (12080605)
 3774479.1 |     13.74081 (12092424)     14.10899 (13071124)     13.77942 (13071124)
    13.62318 (12091921)     13.40609 (12091921)
 3774459.8 |     14.14487 (13071124)     14.59090 (13071124)     14.24428 (12091921)
    14.09687 (12091921)     13.92800 (12091921)
 3774440.5 |     14.59095 (13070101)     14.83830 (12091921)     14.63550 (12091921)
    14.56620 (12091921)     14.47610 (13020118)
 3774421.2 |     15.09234 (12101419)     15.15623 (12101419)     15.13028 (12101419)
    14.99460 (12101419)     14.52571 (12101419)
 3774401.9 |     15.71883 (12101419)     15.47708 (12101419)     15.37258 (12101419)
    15.23635 (12101419)     15.82722 (12071324)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  TRUCKS   ***
                                  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   , . . .   ,

*** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 481541.09
3774788.1	9.69213 (12081705)
3774768.8	9.76001 (12082922)
3774749.5	9.91526 (12082922)
3774730.2	10.04143 (12082922)
3774710.8	10.14756 (12082922)
3774691.5	10.27263 (12081401)
3774672.2	10.40566 (12081401)
3774652.9	10.59307 (12080405)
3774633.6	10.84081 (12080405)
3774614.3	11.07397 (12080405)
3774595.0	11.29325 (12080405)
3774575.7	11.60362 (12081424)
3774556.4	11.85640 (12081424)
3774537.1	12.14475 (12080605)
3774517.7	12.50616 (12080605)
3774498.4	13.16830 (12080605)
3774479.1	13.48227 (12091921)
3774459.8	13.10267 (12101419)
3774440.5	13.04153 (12101419)
3774421.2	12.95395 (13082722)
3774401.9	13.10298 (13082722)

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: TRUCKS   ***
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     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        479864.11   3774072.83       24.40073  (13063006)                479887.91
3774070.12       22.68653  (13063006)
        479901.10   3774139.42       36.02770  (12041107)                479776.30
3774149.50       45.34639  (12041107)
        479737.27   3774105.54       39.92202  (12041107)                479857.06
3774101.60       27.79658  (13063006)
        479856.50   3774053.80       26.11732  (14102317)                479923.42
3774050.99       20.86845  (12081320)
        479923.42   3774009.37       20.69925  (12082919)                479737.84
3774014.43      138.23662  (12041107)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                 L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                 L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479159.28              479197.54              479235.80
      479274.06              479312.32
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3774809.0 |     10.58615 (13021806)     11.74631 (12121607)     13.35263 (12121607)
    14.83924 (12121607)     16.08603 (12121607)
 3774779.4 |     10.53848 (13021806)     11.65316 (13021806)     13.24251 (12121607)
    14.94158 (12121607)     16.45522 (12121607)
 3774749.7 |     10.71521 (12121608)     11.67567 (13021806)     13.01508 (12121607)
    14.94205 (12121607)     16.72936 (12121607)
 3774720.0 |     11.27259 (12121608)     11.58306 (13021806)     12.95171 (13021806)
    14.80176 (12121607)     16.87009 (12121607)
 3774690.4 |     11.75620 (12121608)     12.15963 (12121608)     12.93535 (13021806)
    14.51503 (12121607)     16.85825 (12121607)
 3774660.7 |     12.14229 (12121608)     12.75348 (12121608)     13.14555 (12121608)
    14.49617 (13021806)     16.70084 (12121607)
 3774631.1 |     12.40369 (12121608)     13.24708 (12121608)     13.89507 (12121608)
    14.43645 (13021806)     16.33593 (12121607)
 3774601.4 |     12.52094 (12121608)     13.60364 (12121608)     14.53470 (12121608)
    15.21317 (12121608)     16.38547 (13021806)
 3774571.7 |     12.47887 (12121608)     13.78558 (12121608)     15.00080 (12121608)
    16.01342 (12121608)     16.71413 (12121608)
 3774542.1 |     14.11529 (13070106)     13.77018 (12121608)     15.27066 (12121608)
    16.64264 (12121608)     17.75740 (12121608)
 3774512.4 |     15.97298 (13070106)     15.68712 (13070106)     15.29987 (12121608)
    17.03332 (12121608)     18.58702 (12121608)
 3774482.8 |     17.75502 (13070106)     17.82645 (13070106)     17.56816 (13070106)
    17.12855 (12121608)     19.13448 (12121608)
 3774453.1 |     19.32486 (13070106)     19.84595 (13070106)     20.03532 (13070106)
    19.83485 (13070106)     19.33215 (12121608)
 3774423.4 |     20.55108 (13070106)     21.58163 (13070106)     22.33808 (13070106)
    22.72615 (13070106)     22.60614 (13070106)
 3774393.8 |     22.03152 (14011322)     22.86643 (13070106)     24.26576 (13070106)
    25.37326 (13070106)     26.02544 (13070106)
 3774364.1 |     23.77728 (14011322)     24.97304 (14011322)     25.96907 (14011322)
    27.49223 (13070106)     29.09048 (13070106)
 3774334.5 |     24.94031 (14011322)     26.72767 (14011322)     28.42535 (14011322)
    29.96022 (14011322)     31.40337 (13070106)
 3774304.8 |     25.39606 (14011322)     27.71162 (14011322)     30.13371 (14011322)
    32.56919 (14011322)     34.89153 (14011322)
 3774275.1 |     26.56979 (14011323)     28.39196 (14011323)     30.82316 (14011322)
    34.09318 (14011322)     37.51190 (14011322)
 3774245.5 |     27.54342 (14011323)     29.91299 (14011323)     32.53058 (14011323)
    35.30551 (14011323)     38.52298 (14011322)
 3774215.8 |     27.58591 (12040703)     30.36560 (14011323)     33.55847 (14011323)
    37.13066 (14011323)     41.13603 (14011323)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 , L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 , L0000406 , L0000407 , L0000408 , L0000409 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479350.58	479388.84	479427.10	479465.36	479503.62
3774809.0	16.95935 (12121607)	17.33123 (12121607)	17.11922 (12121607)	16.28953 (12121607)	14.89350 (12121607)
3774779.4	17.62284 (12121607)	18.27850 (12121607)	18.32061 (12121607)	17.67456 (12121607)	16.35896 (12121607)
3774749.7	18.21457 (12121607)	19.20865 (12121607)	19.55469 (12121607)	19.14882 (12121607)	17.96010 (12121607)
3774720.0	18.70051 (12121607)	20.05241 (12121607)	20.77387 (12121607)	20.68211 (12121607)	19.69895 (12121607)
3774690.4	19.05557 (12121607)	20.82476 (12121607)	22.01021 (12121607)	22.30353 (12121607)	21.58426 (12121607)
3774660.7	19.25499 (12121607)	21.47075 (12121607)	23.15690 (12121607)	23.92555 (12121607)	23.59261 (12121607)
3774631.1	19.24139 (12121607)	21.94838 (12121607)	24.18953 (12121607)	25.53795 (12121607)	25.70262 (12121607)
3774601.4	19.05981 (12121607)	22.23896 (12121607)	25.10515 (12121607)	27.13713 (12121607)	27.92613 (12121607)
3774571.7	18.70131 (13021806)	22.27986 (12121607)	25.81399 (12121607)	28.63555 (12121607)	30.22294 (12121607)
3774542.1	18.73124 (13021806)	22.00626 (12121607)	26.23561 (12121607)	29.93433 (12121607)	32.47991 (12121607)
3774512.4	19.81685 (12121608)	21.70230 (13021806)	26.25451 (12121607)	30.90947 (12121607)	34.61401 (12121607)
3774482.8	20.92812 (12121608)	22.25615 (12121608)	25.86106 (12121607)	31.51713 (12121607)	36.52778 (12121607)
3774453.1	21.72526 (12121608)	23.77787 (12121608)	25.60300 (13021806)	31.57405 (12121607)	38.02134 (12121607)
3774423.4	22.08701 (12121608)	24.90535 (12121608)	27.27666 (12121608)	30.92314 (12121607)	38.88298 (12121607)
3774393.8	26.07178 (13070106)	25.49561 (12121608)	28.91810 (12121608)		

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    31.68200 (12121608)     38.86957 (12121607)
 3774364.1 |     30.17645 (13070106)     30.44913 (13070106)     30.93478 (14120316)
    34.11022 (12121608)     37.93736 (13021806)
 3774334.5 |     33.75776 (13070106)     35.44020 (13070106)     36.39895 (14120316)
    38.64215 (14120316)     40.95710 (12121608)
 3774304.8 |     36.93185 (14011322)     39.61658 (13070106)     42.29217 (13070106)
    45.99565 (14120316)     49.42300 (14120316)
 3774275.1 |     41.10345 (14011322)     44.36567 (14011322)     47.31476 (13070106)
    52.64564 (14120316)     59.61227 (14120316)
 3774245.5 |     43.42749 (14011322)     48.63294 (14011322)     53.93384 (14011322)
    58.80331 (14011322)     68.71684 (14120316)
 3774215.8 |     45.61970 (14011323)     50.45378 (14011323)     58.10361 (14011322)
    66.73615 (14011322)     75.59726 (14011322)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                X-COORD (METERS)
  (METERS) |       479541.88              479580.14              479618.40
      479656.66              479694.92
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     16.00550 (12021321)     17.89439 (12021321)     19.14041 (12021321)
    19.54021 (12021321)     19.00598 (12021321)
 3774779.4 |     16.49594 (12021321)     18.66154 (12021321)     20.15667 (12021321)
    20.72727 (12021321)     20.25330 (12021321)
 3774749.7 |     16.97921 (12021321)     19.46139 (12021321)     21.24608 (12021321)
    22.02301 (12021321)     21.62668 (12021321)
 3774720.0 |     17.86770 (12121607)     20.28898 (12021321)     22.41723 (12021321)
    23.44919 (12021321)     23.16055 (12021321)
 3774690.4 |     19.85610 (12121607)     21.13753 (12021321)     23.66831 (12021321)
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    25.01036 (12021321)     24.86792 (12021321)
 3774660.7 |     22.05862 (12121607)     22.00395 (12021321)     25.01245 (12021321)
    26.73643 (12021321)     26.78157 (12021321)
 3774631.1 |     24.48568 (12121607)     22.87549 (12021321)     26.44570 (12021321)
    28.64294 (12021321)     28.93899 (12021321)
 3774601.4 |     27.16507 (12121607)     24.81271 (12121607)     27.96981 (12021321)
    30.74509 (12021321)     31.37661 (12021321)
 3774571.7 |     30.07524 (12121607)     28.02899 (12121607)     29.58106 (12021321)
    33.08031 (12021321)     34.15141 (12021321)
 3774542.1 |     33.19098 (12121607)     31.65873 (12121607)     31.27088 (12021321)
    35.67616 (12021321)     37.33544 (12021321)
 3774512.4 |     36.46006 (12121607)     35.72882 (12121607)     33.02658 (12021321)
    38.56821 (12021321)     41.00262 (12021321)
 3774482.8 |     39.79293 (12121607)     40.22871 (12121607)     37.27792 (12121607)
    41.76111 (12021321)     45.25183 (12021321)
 3774453.1 |     43.03828 (12121607)     45.12531 (12121607)     43.16871 (12121607)
    45.29563 (12021321)     50.20618 (12021321)
 3774423.4 |     45.98440 (12121607)     50.30532 (12121607)     49.99316 (12121607)
    49.19520 (12021321)     56.07503 (12021321)
 3774393.8 |     48.30404 (12121607)     55.54592 (12121607)     57.76818 (12121607)
    53.42094 (12021321)     63.03652 (12021321)
 3774364.1 |     49.60884 (12121607)     60.44395 (12121607)     66.43670 (12121607)
    64.00006 (12121607)     71.38658 (12021321)
 3774334.5 |     49.42238 (12121607)     64.44204 (12121607)     75.65884 (12121607)
    77.33410 (12121607)     81.40628 (12021321)
 3774304.8 |     50.78115 (14120316)     66.42930 (12121607)     84.61975 (12121607)
    93.33162 (12121607)     93.49088 (12021321)
 3774275.1 |     65.18575 (14120316)     67.45006 (14120316)     92.23228 (12121607)
   112.00231 (12121607)    109.59439 (12121607)
 3774245.5 |     80.12270 (14120316)     89.75609 (14120316)     96.05792 (12121607)
   131.83314 (12121607)    144.06193 (12121607)
 3774215.8 |     93.25832 (14120316)    113.23342 (14120316)    131.28571 (14120316)
   148.86902 (12121607)    190.60646 (12121607)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38

                                 PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
```

GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479733.18	479771.44	479809.70	479847.96	479886.22
3774809.0	20.93095 (14022508)	22.25239 (14022508)	22.40116 (14022508)	21.36786 (14022508)	19.32945 (14022508)
3774779.4	22.17698 (14022508)	23.60509 (14022508)	23.70188 (14022508)	22.50899 (14022508)	20.19607 (14022508)
3774749.7	23.55718 (14022508)	25.10724 (14022508)	25.17851 (14022508)	23.76017 (14022508)	21.12285 (14022508)
3774720.0	25.08420 (14022508)	26.77492 (14022508)	26.79138 (14022508)	25.11225 (14022508)	22.10938 (14022508)
3774690.4	26.78747 (14022508)	28.66343 (14022508)	28.59521 (14022508)	26.61839 (14022508)	23.16360 (14022508)
3774660.7	28.70074 (14022508)	30.77860 (14022508)	30.61126 (14022508)	28.27224 (14022508)	24.30472 (14022508)
3774631.1	30.86212 (14022508)	33.16254 (14022508)	32.87589 (14022508)	30.08119 (14022508)	25.49197 (14022508)
3774601.4	33.31077 (14022508)	35.86509 (14022508)	35.40737 (14022508)	32.06310 (14022508)	26.73737 (14022508)
3774571.7	36.10853 (14022508)	38.98641 (14022508)	38.30383 (14022508)	34.26786 (14022508)	28.04043 (14022508)
3774542.1	39.32974 (14022508)	42.59864 (14022508)	41.60666 (14022508)	36.70048 (14022508)	29.39014 (14022508)
3774512.4	43.07038 (14022508)	46.81809 (14022508)	45.41976 (14022508)	39.40617 (14022508)	32.84508 (13102821)
3774482.8	47.44315 (14022508)	51.79914 (14022508)	49.84545 (14022508)	42.41704 (14022508)	37.23660 (13102821)
3774453.1	52.61341 (14022508)	57.75070 (14022508)	55.04027 (14022508)	45.73696 (14022508)	43.23540 (12121601)
3774423.4	58.85787 (14022508)	64.99207 (14022508)	61.17940 (14022508)	49.42059 (14022508)	50.83111 (12121601)
3774393.8	66.43549 (14022508)	73.87873 (14022508)	68.42805 (14022508)	53.39100 (14022508)	59.73483 (12121601)
3774364.1	75.90531 (14022508)	85.09294 (14022508)	77.22815 (14022508)	63.04979 (12121601)	70.18005 (12121601)
3774334.5	87.79136 (14022508)	99.49527 (14022508)	87.94769 (14022508)	77.79937 (12121601)	82.73178 (12022716)
3774304.8	104.13022 (12021321)	118.51233 (14022508)	101.27455 (14022508)	96.56585 (12121601)	115.27927 (12022716)
3774275.1	127.30268 (12021321)	144.37361 (14022508)	117.44012 (14022508)	126.67708 (12022716)	156.41703 (12022716)
3774245.5	165.80078 (13042407)	181.26785 (14022508)	141.73155 (12121601)		

```
   196.43122 (12022716)    205.61409 (12022716)
 3774215.8 |    226.95541 (13042407)    250.50151 (13042407)    219.52197 (12022716)
   276.15286 (12022716)    247.95957 (12022716)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                 L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                 L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       479924.48
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     16.61661 (14022508)
 3774779.4 |     17.17643 (14022508)
 3774749.7 |     17.74949 (14022508)
 3774720.0 |     18.33612 (14022508)
 3774690.4 |     18.93169 (14022508)
 3774660.7 |     20.81782 (13102821)
 3774631.1 |     23.00813 (13102821)
 3774601.4 |     25.45303 (13102821)
 3774571.7 |     28.17400 (13102821)
 3774542.1 |     31.96100 (12121601)
 3774512.4 |     36.45499 (12121601)
 3774482.8 |     41.55771 (12121601)
 3774453.1 |     47.28255 (12121601)
 3774423.4 |     53.66385 (12121601)
 3774393.8 |     60.38704 (12121601)
 3774364.1 |     77.31544 (12022716)
 3774334.5 |     99.98398 (12022716)
 3774304.8 |    125.31344 (12022716)
 3774275.1 |    149.42216 (12022716)
 3774245.5 |    159.24028 (12022716)
```

```
 3774215.8 |    163.51297 (12022716)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479959.69               480038.76               480117.83
      480196.90               480275.97
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     15.34535 (13102821)     29.07974 (13102821)     28.90320 (12011117)
    27.91871 (12041203)     25.05448 (12031723)
 3774768.8 |     16.21387 (13102821)     30.16250 (13102821)     30.20816 (12121601)
    28.84864 (12041203)     25.86909 (12031723)
 3774749.5 |     17.14906 (13102821)     31.22776 (13102821)     31.34960 (12121601)
    29.84072 (12041203)     26.87707 (12031723)
 3774730.2 |     18.13617 (13102821)     28.39178 (13102821)     31.52979 (12121601)
    29.47904 (12041203)     27.43142 (12081701)
 3774710.8 |     19.19104 (13102821)     25.02030 (12121601)     32.21606 (12121601)
    29.11541 (12041203)     28.45369 (12081701)
 3774691.5 |     20.31352 (13102821)     23.32285 (12121601)     27.89081 (12121601)
    29.15963 (12031723)     28.61819 (12081701)
 3774672.2 |     21.49847 (13102821)     24.57160 (12121601)     28.57881 (12121601)
    30.31700 (12031723)     29.33458 (12041201)
 3774652.9 |     22.73850 (13102821)     25.84081 (12121601)     31.00336 (12121601)
    31.66869 (12031723)     30.93612 (12080105)
 3774633.6 |     24.42983 (12121601)     27.11874 (12121601)     31.44078 (12121601)
    32.85902 (12031723)     32.56124 (12080105)
 3774614.3 |     26.28200 (12121601)     28.39935 (12121601)     35.59829 (12041203)
    33.83554 (12031723)     33.83040 (12080105)
 3774595.0 |     28.30290 (12121601)     29.69629 (12121601)     36.78728 (12041203)
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    35.39234 (12041201)     35.29351 (12071219)
 3774575.7 |     30.47561 (12121601)     30.97410 (12121601)     38.44147 (12031723)
    37.22127 (12041201)     36.74083 (12071219)
 3774556.4 |     32.76266 (12121601)     32.16907 (12121601)     40.70814 (12031723)
    39.04481 (12080105)     37.97954 (12071219)
 3774537.1 |     35.23050 (12121601)     33.78106 (12022716)     42.86611 (12031723)
    40.70288 (12080105)     38.63624 (12071219)
 3774517.7 |     37.79927 (12121601)     38.07516 (12022716)     44.27579 (12031723)
    42.83159 (12071219)     38.81363 (12071219)
 3774498.4 |     40.44485 (12121601)     42.57457 (12022716)     46.74122 (12041201)
    44.98773 (12071219)     38.13844 (12071219)
 3774479.1 |     43.18655 (12121601)     47.30732 (12022716)     49.71290 (12080105)
    47.03973 (12071219)     38.51601 (12092019)
 3774459.8 |     45.99283 (12121601)     51.98500 (12022716)     52.23292 (12080105)
    48.04660 (12071219)     39.29231 (12092019)
 3774440.5 |     48.79738 (12121601)     56.66667 (12022716)     55.40714 (12071219)
    48.08669 (12071219)     39.50513 (12092019)
 3774421.2 |     55.92696 (12022716)     60.66069 (12022716)     57.84973 (12071219)
    47.50900 (12092019)     39.25022 (12092019)
 3774401.9 |     64.55770 (12022716)     63.80668 (12022716)     42.25008 (12022716)
    39.46328 (12092019)     40.24452 (12120107)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                 L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                 L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       480355.04               480434.11               480513.18
      480592.25               480671.32
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     25.82314 (12081701)     25.34502 (12081701)     24.95415 (12071219)
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    23.30254 (12071219)     23.21029 (14040821)
 3774768.8 |     26.56327 (12081701)     25.80867 (12080105)     25.58360 (12071219)
    23.31240 (14040821)     23.18839 (14040821)
 3774749.5 |     27.68568 (12081701)     26.37397 (12071219)     26.01943 (12071219)
    23.96653 (14040821)     22.82411 (12071323)
 3774730.2 |     28.27598 (12081701)     27.50493 (12071219)     26.17410 (12071219)
    24.18695 (14040821)     22.91346 (13060705)
 3774710.8 |     28.70038 (12080105)     28.36700 (12071219)     26.03183 (12071219)
    24.18404 (14040821)     23.53918 (12071222)
 3774691.5 |     29.53122 (12080105)     29.00100 (12071219)     26.10452 (12111417)
    23.95343 (14040821)     24.30628 (12071222)
 3774672.2 |     30.38186 (12071219)     29.08918 (12071219)     26.06796 (12111417)
    24.11805 (13060705)     24.73848 (12071222)
 3774652.9 |     31.66265 (12071219)     29.37769 (12071219)     26.23233 (12111417)
    24.68044 (12071222)     24.91323 (12071222)
 3774633.6 |     32.68488 (12071219)     29.17521 (12071219)     26.13729 (14040821)
    25.19163 (12071222)     24.81414 (12071222)
 3774614.3 |     33.40229 (12071219)     29.07564 (12111417)     26.35408 (12071222)
    25.43718 (12071222)     25.40519 (13090224)
 3774595.0 |     33.77399 (12071219)     29.14571 (12111417)     27.33116 (12071222)
    25.54948 (12071222)     26.00167 (13090224)
 3774575.7 |     33.76739 (12071219)     29.30088 (12092019)     27.84256 (12071222)
    25.89722 (12092123)     26.17893 (13090224)
 3774556.4 |     33.43158 (12111417)     29.53548 (12092019)     28.02250 (12071222)
    26.62321 (12092123)     26.14467 (13090224)
 3774537.1 |     33.50061 (12111417)     30.10427 (12071222)     28.29967 (12120107)
    26.91739 (12092123)     26.27975 (13090905)
 3774517.7 |     33.96246 (12092019)     30.88820 (12120107)     28.90820 (12092123)
    26.74889 (12092123)     26.59746 (13090822)
 3774498.4 |     34.08141 (12092019)     31.00347 (12120107)     29.18813 (12092123)
    27.34925 (12080223)     26.91785 (13090822)
 3774479.1 |     33.94845 (12120107)     31.72941 (12092123)     30.05962 (12092123)
    27.93491 (13081722)     27.11424 (12081223)
 3774459.8 |     34.61439 (12120107)     32.81216 (12092123)     31.15899 (12080223)
    29.24411 (12081223)     27.35151 (12081122)
 3774440.5 |     34.98964 (12120107)     34.09200 (12052222)     30.87754 (13081722)
    27.82988 (13081722)     26.47351 (12081122)
 3774421.2 |     37.43838 (12092123)     32.31567 (12052222)     29.51526 (13081722)
    26.50363 (12082819)     24.43956 (12082819)
 3774401.9 |     36.13253 (12052222)     33.65652 (13081722)     31.79870 (13081722)
    28.93159 (12081122)     26.64004 (13071323)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: FORK ***
INCLUDING SOURCE(S): L0000393 , L0000394 , L0000395 , L0000396 , L0000397 ,
L0000398 , L0000399 , L0000400 , L0000401 , L0000402 , L0000403 , L0000404 , L0000405 ,
L0000406 , L0000407 , L0000408 , L0000409 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480750.39	480829.46	480908.53	480987.60	481066.67
3774788.1	21.91011 (12071323)	21.25159 (12071222)	19.93291 (12071222)	19.46988 (13090224)	19.07671 (12081522)
3774768.8	22.00014 (12071222)	21.43495 (12071222)	19.73838 (13090224)	19.91452 (13090224)	19.03517 (12081522)
3774749.5	22.56143 (12071222)	21.26715 (12071222)	20.26022 (13090224)	19.82314 (13090224)	18.89740 (13071024)
3774730.2	22.91785 (12071222)	20.90172 (12071222)	20.52881 (13090224)	19.66279 (12081522)	18.81374 (13071024)
3774710.8	23.05368 (12071222)	21.14694 (13090224)	20.60034 (13090224)	19.63176 (12081522)	19.02036 (13090822)
3774691.5	22.95924 (12071222)	21.57835 (13090224)	20.55293 (12081522)	19.49872 (13081201)	19.13615 (13090822)
3774672.2	22.90748 (13090224)	21.97344 (13090224)	20.55427 (12081522)	19.78510 (13090822)	19.12865 (13090822)
3774652.9	23.49089 (13090224)	21.79875 (13090224)	20.29220 (13090905)	19.72678 (13090822)	19.14461 (13070323)
3774633.6	23.82811 (13090224)	21.91390 (12081522)	20.91580 (13090822)	19.85218 (13090822)	19.37554 (12081122)
3774614.3	23.90228 (13090224)	21.96573 (13090905)	21.08829 (13090822)	19.77163 (12081122)	19.59171 (12081122)
3774595.0	23.79226 (12081522)	22.28303 (13090822)	20.85710 (13090822)	20.13625 (12081122)	19.60533 (12081122)
3774575.7	23.84558 (13090905)	22.25008 (13090822)	20.83208 (12081122)	20.04385 (12081122)	19.44982 (13071323)
3774556.4	24.07887 (13090822)	22.47275 (13090822)	21.52158 (12081122)	20.30609 (12081122)	19.59950 (13071323)
3774537.1	24.37274 (13090822)	23.00222 (12081122)	21.79510 (12081122)	20.62180 (13071323)	19.53926 (13071323)
3774517.7	24.38969 (12081223)	23.08756 (12081122)	21.45203 (12081122)	20.51020 (13071323)	19.65707 (13071823)
3774498.4	24.64863 (12081122)	22.98572 (12081122)	21.60263 (13071323)		

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    20.52689 (13071823)     19.72339 (13071823)
 3774479.1 |     24.99367 (12081122)     22.85064 (13071323)     21.25837 (13071823)
    20.43743 (13071823)     19.57292 (13071823)
 3774459.8 |     25.12642 (12081122)     23.11502 (13071323)     21.86827 (13071823)
    20.50904 (13071823)     19.55279 (13062305)
 3774440.5 |     25.49735 (13071323)     23.48496 (13071823)     21.94741 (13071823)
    20.56402 (13062305)     19.96724 (12092424)
 3774421.2 |     25.55326 (13071823)     22.48924 (13071823)     21.67216 (13070105)
    20.79892 (12092424)     20.13417 (12092424)
 3774401.9 |     26.02006 (13071823)     23.07879 (13070105)     20.98766 (13070105)
    19.52415 (12082921)     18.88927 (12071820)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                 INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       481145.74               481224.81               481303.88
      481382.95               481462.02
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     18.39033 (13071024)     17.65484 (13070303)     17.17602 (13070303)
    16.68613 (13070323)     16.31895 (13070323)
 3774768.8 |     18.30875 (13071024)     17.88896 (13070303)     17.32553 (13070323)
    16.84188 (13070323)     16.47881 (12081705)
 3774749.5 |     18.33890 (13070303)     17.91195 (13070303)     17.57074 (13070323)
    16.80337 (13070323)     16.66841 (12081705)
 3774730.2 |     18.46327 (13070303)     18.00624 (13070323)     17.50809 (13070323)
    17.03457 (12081705)     16.70193 (12081705)
 3774710.8 |     18.41080 (13070303)     18.27602 (13070323)     17.50110 (12081705)
    17.20868 (12081705)     16.62340 (12081705)
 3774691.5 |     18.50352 (13070323)     18.31506 (13070323)     17.73001 (12081705)
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    17.21858 (12081705)     16.43908 (13070302)
 3774672.2 |     18.67709 (13070323)     18.20865 (12081705)     17.78239 (12081705)
    17.01243 (12081705)     16.44761 (12082922)
 3774652.9 |     18.74541 (12081122)     18.43235 (12081705)     17.71533 (12081705)
    16.94293 (13070302)     16.58041 (12082922)
 3774633.6 |     18.82581 (12081122)     18.53366 (12081705)     17.60836 (13070302)
    17.03544 (12082922)     16.36833 (12081401)
 3774614.3 |     18.73993 (12081705)     18.17880 (12081705)     17.39286 (12082922)
    16.86143 (13082403)     16.20247 (13082403)
 3774595.0 |     18.63845 (13071323)     18.01887 (13070302)     17.28191 (13082403)
    16.76736 (13082403)     16.21918 (12080405)
 3774575.7 |     18.62428 (13071323)     17.89954 (13071823)     17.38363 (13082403)
    16.98248 (12080405)     16.45525 (12080405)
 3774556.4 |     18.46043 (13071823)     18.06955 (13071823)     17.20880 (13082403)
    17.22306 (12080405)     16.44401 (12080405)
 3774537.1 |     18.64945 (13071823)     17.91076 (13071823)     17.44257 (12080405)
    17.19169 (12080405)     16.45205 (12092424)
 3774517.7 |     18.58562 (13071823)     17.75855 (12080405)     17.48781 (12080405)
    17.09014 (12092424)     16.42571 (12081424)
 3774498.4 |     18.44750 (13071823)     18.31400 (12080405)     17.50702 (12092424)
    16.99067 (12092424)     16.32085 (12080605)
 3774479.1 |     18.49451 (12092424)     18.60535 (12092424)     17.46387 (12092424)
    16.93823 (12080605)     16.54108 (12080605)
 3774459.8 |     18.68084 (12092424)     18.57779 (12092424)     17.56553 (13071124)
    17.06069 (12080605)     16.75237 (12091921)
 3774440.5 |     18.73693 (12092424)     18.31478 (13071124)     17.63285 (13071124)
    17.24127 (12091921)     17.03621 (12091921)
 3774421.2 |     18.74568 (13071124)     18.24082 (13071124)     17.71834 (12091921)
    17.12562 (12091921)     16.49597 (13020118)
 3774401.9 |     19.00760 (13071124)     18.16509 (12091921)     17.48672 (12091921)
    16.94730 (12101419)     17.55591 (12071324)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FORK     ***
                                  INCLUDING SOURCE(S):     L0000393    , L0000394
, L0000395    , L0000396    , L0000397    ,
                L0000398    , L0000399    , L0000400    , L0000401    , L0000402
, L0000403    , L0000404    , L0000405    ,
                L0000406    , L0000407    , L0000408    , L0000409    ,

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF PM_10   IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 481541.09
3774788.1	16.52834 (12081705)
3774768.8	16.43072 (12081705)
3774749.5	16.27442 (12081705)
3774730.2	16.00420 (12081705)
3774710.8	15.88443 (12082922)
3774691.5	15.95716 (12082922)
3774672.2	15.88515 (12082922)
3774652.9	15.87267 (12081401)
3774633.6	15.70567 (12081401)
3774614.3	15.79726 (12080405)
3774595.0	15.95103 (12080405)
3774575.7	15.95512 (12080405)
3774556.4	15.85509 (12081424)
3774537.1	15.97683 (12081424)
3774517.7	16.04326 (12081424)
3774498.4	16.78047 (12080605)
3774479.1	16.57320 (12080605)
3774459.8	15.55767 (12091921)
3774440.5	15.00010 (13020118)
3774421.2	14.79850 (12101419)
3774401.9	14.55000 (12101419)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FORK   ***
INCLUDING SOURCE(S):   L0000393   , L0000394   , L0000395   , L0000396   , L0000397   ,
L0000398   , L0000399   , L0000400   , L0000401   , L0000402   , L0000403   , L0000404   , L0000405   ,
L0000406   , L0000407   , L0000408   , L0000409   ,

*** 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)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
        479864.11   3774072.83      454.61011  (12011516)                479887.91
3774070.12      338.74701  (12011516)
        479901.10   3774139.42      282.27971  (12031716)                479776.30
3774149.50      652.79983  (12022716)
        479737.27   3774105.54     2135.26224  (12041107)                479857.06
3774101.60      454.08158  (13041407)
        479856.50   3774053.80      435.45010  (13020217)                479923.42
3774050.99      193.90503  (12011516)
        479923.42   3774009.37      166.11682  (13020217)                479737.84
3774014.43     1013.54260  (13112916)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***       04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                  INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |      479159.28               479197.54               479235.80
      479274.06              479312.32
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     23.94088 (13090402)     25.61895 (13090402)     26.69673 (12102004)
    28.70472 (12091924)     31.11284 (14102319)
 3774779.4 |     25.03505 (15092922)     26.79010 (13090402)     28.28453 (13090402)
    29.45540 (12102004)     32.39238 (12091924)
 3774749.7 |     26.59685 (15092922)     27.81344 (12092302)     29.79713 (13090402)
    30.82763 (13090402)     33.19608 (12091924)
 3774720.0 |     27.51951 (15092922)     29.27859 (15092922)     30.86086 (13090402)
    32.78530 (13090402)     33.97111 (14100718)
 3774690.4 |     27.87500 (15092922)     30.54852 (15092922)     31.97465 (15092922)
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    34.13157 (13090402)     35.70487 (13082920)
 3774660.7 |     28.76836 (13090206)     31.00515 (15092922)     33.49641 (15092922)
    35.05759 (12092302)     37.55659 (13090402)
 3774631.1 |     29.89629 (13081606)     31.61486 (13090206)     34.42734 (15092922)
    36.68320 (15092922)     38.46516 (13090402)
 3774601.4 |     30.93360 (13081606)     32.72029 (13081606)     34.74891 (13090206)
    38.15166 (15092922)     39.61486 (15092922)
 3774571.7 |     31.24928 (13081606)     33.87489 (13081606)     35.50870 (13081606)
    38.36956 (15031119)     41.42601 (15092922)
 3774542.1 |     32.77323 (13082922)     34.31354 (13082922)     36.77892 (13081606)
    38.64857 (16092920)     42.42076 (15031119)
 3774512.4 |     33.17450 (13082922)     35.89184 (13082922)     37.42057 (13082922)
    39.55289 (12101720)     41.71168 (15031119)
 3774482.8 |     33.60184 (13030907)     36.20209 (13082922)     39.01916 (13082922)
    40.27157 (13082922)     42.01601 (12101720)
 3774453.1 |     34.92385 (13102522)     36.35294 (13102522)     38.89959 (13082922)
    41.83051 (13082922)     42.41040 (13082922)
 3774423.4 |     35.67263 (12062804)     37.55257 (13102522)     38.80053 (13102522)
    41.33552 (13082922)     44.10029 (13082922)
 3774393.8 |     36.48535 (12081305)     37.98773 (12062804)     39.75711 (12062804)
    40.85120 (13102522)     42.98977 (13082922)
 3774364.1 |     36.42607 (14091420)     38.70414 (13061103)     40.11213 (13061103)
    41.30235 (12062804)     41.93009 (13102522)
 3774334.5 |     36.11464 (13082906)     38.08458 (14091420)     40.01371 (13061103)
    41.29862 (13061103)     41.64142 (12062804)
 3774304.8 |     35.42666 (15073005)     37.36392 (13082906)     39.17998 (13082906)
    40.56383 (14091420)     41.44270 (13061103)
 3774275.1 |     37.48739 (15081621)     38.30202 (15081621)     38.37098 (15081621)
    39.78845 (13082806)     40.36557 (13082806)
 3774245.5 |     39.01347 (15081621)     40.66088 (15081621)     41.68464 (15081621)
    41.50814 (15081621)     39.99344 (15081621)
 3774215.8 |     39.24349 (16072222)     41.24854 (13051220)     42.94758 (15081621)
    43.86625 (15081621)     43.56844 (15081621)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                  INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479350.58	479388.84	479427.10	479465.36	479503.62
3774809.0	32.50235 (12071902)	33.60879 (13082204)	35.04694 (12111706)	38.22577 (12081005)	38.90319 (13020421)
3774779.4	34.54319 (14102319)	35.29402 (12062803)	36.64187 (13082204)	39.75837 (12081005)	41.70486 (13020421)
3774749.7	36.24862 (14102319)	37.53924 (12071902)	38.87073 (13082204)	40.97126 (14120718)	44.44541 (12081005)
3774720.0	37.47433 (12091924)	39.43691 (14102319)	40.82394 (13101418)	42.18584 (14120718)	46.74769 (12081005)
3774690.4	38.50607 (15111318)	41.10307 (14102319)	43.04623 (13101418)	45.23225 (16020719)	48.72043 (14120718)
3774660.7	39.34419 (14100718)	42.82035 (15112019)	44.96512 (14102319)	47.31347 (13101418)	50.36017 (14120718)
3774631.1	41.07676 (13082920)	43.75244 (15111318)	47.27035 (15112019)	48.90876 (13101418)	50.56818 (14120718)
3774601.4	42.70025 (13082920)	44.06557 (13082920)	49.11111 (15112019)	50.53248 (15030518)	52.99836 (16020719)
3774571.7	43.52117 (15100918)	46.28409 (13082920)	49.98874 (15111318)	53.68082 (15112019)	55.53877 (13101418)
3774542.1	45.15150 (13101618)	46.69947 (15100918)	49.96271 (13082920)	55.12289 (15112019)	56.30344 (15070104)
3774512.4	46.22408 (15031119)	47.64527 (13101618)	50.74070 (13082920)	54.50399 (15111318)	58.67373 (15112019)
3774482.8	45.42258 (15031119)	49.19485 (13101618)	50.80152 (15100918)	53.63958 (13082920)	59.39750 (15112019)
3774453.1	44.43971 (12101720)	48.70310 (15031119)	51.57361 (13101618)	53.33043 (15100918)	57.71524 (15111318)
3774423.4	44.59532 (13051222)	45.54799 (16092920)	50.71701 (15031119)	52.12174 (13101618)	54.99424 (13082920)
3774393.8	45.87618 (13082922)	45.17825 (13051222)	46.88758 (15031119)	54.38384 (14022221)	55.46526 (15102105)
3774364.1	44.02197 (16110820)	46.38463 (13082922)	45.61135 (14051419)	49.80503 (14022221)	57.47688 (14022221)
3774334.5	42.07579 (13102522)	43.53439 (16110820)	46.46033 (12123106)	45.98059 (14051419)	53.95601 (14022221)
3774304.8	41.01523 (13061103)	42.06445 (16010516)	45.36785 (16010516)	47.65723 (12123106)	45.42284 (12030101)
3774275.1	40.72634 (14091420)	43.72394 (16010516)	50.98021 (16010516)	55.66105 (16010516)	54.90753 (16010516)
3774245.5	39.77615 (13091305)	40.52823 (16010516)	50.72710 (16010516)	60.64339 (16010516)	67.47834 (16010516)
3774215.8	41.92271 (15081621)	38.68471 (15022217)	43.77572 (16010516)		

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    56.61962 (16010516)     70.02295 (16010516)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479541.88               479580.14               479618.40
      479656.66               479694.92
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     40.83639 (13082802)     41.72194 (14051320)     43.37969 (16102018)
    43.75805 (12090704)     44.55542 (13062024)
 3774779.4 |     43.21946 (13100618)     44.70716 (14051320)     46.34282 (16102018)
    47.20800 (16102018)     47.52270 (13062024)
 3774749.7 |     46.05379 (16021618)     47.39963 (14051320)     49.19360 (16102721)
    51.22133 (16102018)     50.52010 (13062024)
 3774720.0 |     48.90140 (16021618)     49.82729 (13100618)     52.54218 (16102721)
    55.18245 (16102018)     53.67293 (16092206)
 3774690.4 |     51.15625 (13051401)     53.46017 (13100618)     55.60947 (16102721)
    59.09169 (16102018)     57.25114 (12111419)
 3774660.7 |     53.72929 (16031620)     56.53915 (13100618)     58.03379 (16102721)
    62.63117 (16102018)     60.83132 (12111419)
 3774631.1 |     55.27192 (16031620)     59.24127 (16021618)     60.56216 (14051320)
    65.64727 (16102018)     64.77093 (15062723)
 3774601.4 |     57.60709 (14120718)     61.23072 (16021618)     62.23125 (14051320)
    67.95797 (16102018)     68.78714 (15062723)
 3774571.7 |     58.59670 (14120718)     63.25028 (16031620)     65.53224 (13100618)
    70.56182 (16102721)     72.38782 (15062723)
 3774542.1 |     58.10609 (16020719)     64.20207 (16031620)     67.60114 (13100618)
    72.31081 (16102721)     76.07299 (16102018)
 3774512.4 |     60.08435 (13101418)     65.17168 (14120718)     69.01368 (16021618)
    72.55595 (16102721)     79.02794 (16102018)
 3774482.8 |     60.22208 (15070104)     63.99485 (14120718)     69.32163 (16031620)
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    71.11134 (16102721)     80.88578 (16102018)
 3774453.1 |     62.12036 (12091419)     61.71441 (13101418)     68.89026 (16031620)
    72.19816 (13100618)     81.28283 (16102018)
 3774423.4 |     61.19209 (15112019)     63.08549 (12091419)     67.88059 (13102724)
    72.05616 (16021618)     80.13277 (16102721)
 3774393.8 |     58.80246 (13012518)     65.73871 (12091419)     65.10084 (13060904)
    72.46145 (13030405)     78.26689 (16102721)
 3774364.1 |     57.49310 (15102105)     64.29959 (12040203)     65.52994 (12020105)
    73.24758 (14020506)     73.72753 (16102721)
 3774334.5 |     58.03643 (14022221)     61.37484 (13012518)     68.53358 (12040203)
    72.11488 (14020506)     75.66641 (13030405)
 3774304.8 |     57.20614 (14022221)     57.75080 (15102105)     66.40115 (13021806)
    76.14505 (13050618)     79.45587 (13030405)
 3774275.1 |     51.82092 (15090818)     61.60391 (14022221)     61.78523 (13012518)
    75.79077 (13050618)     79.00637 (14020506)
 3774245.5 |     66.20244 (16010516)     59.78203 (15090818)     68.62491 (15090818)
    71.18602 (13021806)     84.36090 (12031711)
 3774215.8 |     79.53278 (16010516)     78.14642 (16010516)     66.13854 (15090818)
    70.82429 (12021512)     83.96721 (12031708)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479733.18              479771.44              479809.70
      479847.96              479886.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     45.04943 (12081604)     45.41260 (12110518)     46.25842 (13083106)
    47.14170 (13051201)     49.20820 (12083104)
 3774779.4 |     48.23868 (12081604)     49.38487 (12110518)     50.15101 (14100219)
    51.72974 (13051201)     53.28666 (12083104)
 3774749.7 |     51.46181 (12081604)     53.50940 (12110518)     54.25382 (14100219)
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    56.59459 (13051201)     57.46950 (12083104)
 3774720.0 |     54.71006 (12081604)     57.77714 (12110518)     58.58802 (14100219)
    61.78136 (13051201)     61.68560 (12083104)
 3774690.4 |     58.11788 (16040220)     62.01794 (12110518)     62.96199 (14100219)
    67.12563 (13051201)     66.63150 (13072103)
 3774660.7 |     61.84074 (16040220)     66.28999 (12110518)     67.34319 (14100219)
    72.64019 (13051201)     72.18268 (15101119)
 3774631.1 |     65.39817 (16040220)     70.50951 (12110518)     71.65066 (14100219)
    78.27425 (13051201)     78.18057 (15101119)
 3774601.4 |     68.72051 (16040220)     74.58990 (12110518)     75.87600 (14100219)
    83.93124 (13051201)     84.11848 (15101119)
 3774571.7 |     71.67554 (16040220)     78.33670 (12110518)     79.78537 (14100219)
    89.43315 (13051201)     89.76287 (15101119)
 3774542.1 |     74.13694 (16040220)     81.70469 (12110518)     83.36471 (14100219)
    94.68755 (13051201)     94.83764 (15101119)
 3774512.4 |     75.99773 (16092206)     84.59276 (12110518)     88.28824 (13051201)
    99.49540 (13051201)     98.98592 (15101119)
 3774482.8 |     77.57740 (16092206)     86.90605 (12110518)     93.16263 (13051201)
   103.66182 (13051201)    103.42648 (13050320)
 3774453.1 |     80.65163 (13082919)     88.56275 (12110518)     97.77876 (13051201)
   106.99205 (13051201)    110.34330 (15031519)
 3774423.4 |     83.19794 (13082919)     89.23222 (16091306)    101.63604 (13051201)
   111.58984 (15101119)    119.62133 (15031519)
 3774393.8 |     84.86538 (13082919)     89.28158 (14031119)    105.30355 (13051201)
   116.24487 (15101119)    128.16801 (15031519)
 3774364.1 |     85.16344 (13082919)     90.40150 (14031119)    108.55325 (13051201)
   119.67858 (15101119)    134.57618 (15031519)
 3774334.5 |     85.02347 (12012518)     91.20708 (14031119)    111.87520 (13051201)
   121.64452 (15101119)    137.43015 (15031519)
 3774304.8 |     86.74326 (13100420)     91.83936 (14031119)    115.33314 (13051201)
   131.50365 (15031519)    154.66497 (14011618)
 3774275.1 |     89.75754 (15100407)     92.98297 (15071921)    120.53685 (13041522)
   144.50889 (15031519)    181.22741 (14011618)
 3774245.5 |     99.56711 (15100407)     97.20954 (15071921)    128.03303 (13011818)
   156.44046 (16092718)    200.99151 (12071220)
 3774215.8 |    100.61145 (15100407)    101.08063 (15071921)    136.19877 (13011818)
   185.46539 (14011618)    231.50866 (12102818)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,
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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479924.48
3774809.0	47.95470 (14012819)
3774779.4	52.20626 (12092102)
3774749.7	56.66870 (15101119)
3774720.0	61.15824 (15101119)
3774690.4	65.76748 (13050320)
3774660.7	71.01564 (13050320)
3774631.1	76.33899 (16112417)
3774601.4	82.17499 (12082023)
3774571.7	89.79779 (15031519)
3774542.1	97.93842 (15031519)
3774512.4	105.52578 (15031519)
3774482.8	111.82545 (15031519)
3774453.1	115.90123 (15031519)
3774423.4	119.40382 (16020918)
3774393.8	133.44578 (14011618)
3774364.1	153.11191 (14011618)
3774334.5	169.45118 (14011618)
3774304.8	179.36180 (12071220)
3774275.1	194.97585 (12102818)
3774245.5	226.68710 (12102818)
3774215.8	245.76196 (15010517)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 , STCK8 , STCK9 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479959.69	480038.76	480117.83	480196.90	480275.97
3774788.1	49.28927 (16112417)	48.75363 (12081103)	49.20211 (14011618)	46.99144 (12081123)	42.08921 (12060204)
3774768.8	52.22127 (12082023)	51.47628 (14120404)	53.15282 (14011618)	49.82307 (12080704)	45.61669 (12060204)
3774749.5	55.37017 (12082023)	54.16399 (14120404)	57.11889 (14011618)	52.52829 (12080704)	49.07862 (12060204)
3774730.2	58.56705 (12082023)	56.67478 (14120404)	60.93247 (14011618)	54.69117 (12080704)	52.19519 (12060204)
3774710.8	61.98324 (15031519)	59.47309 (12081405)	64.48220 (14011618)	56.89334 (15101019)	54.72283 (15121021)
3774691.5	66.12817 (15031519)	62.88960 (16020918)	68.25760 (12071220)	59.24006 (12081706)	57.77637 (13100823)
3774672.2	70.37010 (15031519)	66.25108 (13101518)	71.71172 (12071220)	64.69799 (15121021)	61.29326 (12080203)
3774652.9	74.65480 (15031519)	72.83076 (14011618)	74.37670 (12071220)	70.83472 (15121021)	64.91178 (16111317)
3774633.6	78.84393 (15031519)	79.48308 (14011618)	77.53405 (12080704)	76.57128 (15121021)	67.53237 (15071923)
3774614.3	82.85207 (15031519)	86.37016 (14011618)	82.02286 (15101019)	81.35908 (15121021)	70.73101 (15021118)
3774595.0	86.48509 (15031519)	93.21039 (14011618)	86.85422 (15101019)	85.42623 (13100823)	73.38976 (15021118)
3774575.7	89.61966 (15031519)	99.63833 (14011618)	90.40605 (15101019)	89.63337 (16111317)	76.41225 (13090724)
3774556.4	92.39037 (13122903)	105.18319 (14011618)	96.83954 (15121021)	95.01977 (16111317)	84.27511 (14052101)
3774537.1	95.99198 (13122903)	110.25317 (12071220)	106.22310 (15121021)	98.35546 (15071923)	90.88095 (14052101)
3774517.7	99.69530 (16020918)	114.51754 (12071220)	114.33527 (15121021)	102.48448 (15021118)	95.81259 (13100322)
3774498.4	105.13880 (16020918)	116.55871 (12071220)	120.02456 (15121021)	105.23505 (13100301)	100.93895 (15101806)
3774479.1	112.23594 (14011618)	122.32358 (15101019)	124.96322 (14101424)	115.12580 (14052101)	104.50412 (15090106)
3774459.8	123.09886 (14011618)	128.39062 (15101019)	132.20373 (16111317)	124.41457 (14052101)	107.63438 (14012320)
3774440.5	133.83264 (14011618)	135.89259 (15121021)	135.86659 (15071923)	130.84312 (13100322)	110.50628 (14111422)
3774421.2	143.64041 (14011618)	149.45986 (15121021)	140.25649 (15021118)	137.01834 (15101806)	119.82866 (15091321)
3774401.9	151.51062 (14011618)	159.49179 (15121021)	150.74443 (14052101)		

140.38821 (15090106) 131.67075 (15091321)
*** AERMOD - VERSION 19191 *** *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\3rd and Central\3r *** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 14:51:38

PAGE 99
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING ***
INCLUDING SOURCE(S): STCK1 , STCK2 , STCK3 , STCK4 , STCK5 ,
STCK6 , STCK7 , STCK8 , STCK9 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480355.04	480434.11	480513.18	480592.25	480671.32
3774788.1	39.52783 (12080203)	33.79898 (13072205)	30.34294 (12091823)	27.04146 (13070402)	23.13419 (12120405)
3774768.8	42.14494 (12080203)	35.62653 (13090724)	32.27914 (13070402)	27.94048 (12083024)	23.84194 (12120405)
3774749.5	44.33502 (12080203)	37.50269 (13090724)	34.26937 (13070402)	28.89987 (12083024)	24.96377 (13020219)
3774730.2	45.87249 (13072205)	39.11684 (12091823)	35.79359 (13070402)	29.83234 (13081024)	25.96042 (13020219)
3774710.8	47.55694 (13072205)	42.24619 (12091823)	36.65137 (13070402)	30.86250 (12120405)	26.63151 (13020219)
3774691.5	49.26950 (15021118)	45.01677 (12091823)	38.52181 (12083002)	32.23664 (13020219)	27.15114 (13083103)
3774672.2	52.35379 (13090724)	47.89634 (13070402)	39.87362 (13081024)	33.92348 (13020219)	29.12185 (13083103)
3774652.9	54.79900 (13090724)	50.05120 (13070402)	41.28212 (13081024)	35.01403 (13020219)	30.84167 (13083103)
3774633.6	59.51476 (12091823)	51.95758 (12083002)	42.86700 (13020219)	36.17267 (13040206)	32.07542 (13083103)
3774614.3	63.89826 (14052101)	54.55053 (12083002)	45.63398 (13020219)	39.11211 (13083103)	32.62452 (13083103)
3774595.0	67.46460 (13070402)	56.46960 (13081024)	47.34419 (13020219)	41.67169 (13083103)	32.45367 (13112002)
3774575.7	71.17266 (15101806)	58.25377 (12120405)	50.04752 (15091321)		

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    43.23234 (13083103)     33.94049 (12100624)
 3774556.4 |     74.30949 (15101806)     61.88234 (13020219)     53.92917 (13083103)
    43.48664 (13083103)     34.66947 (12100624)
 3774537.1 |     76.96915 (15090106)     64.45290 (13020219)     57.41778 (13083103)
    44.44918 (12100624)     35.20504 (13071024)
 3774517.7 |     79.41591 (14012320)     70.51844 (15091321)     58.95173 (13083103)
    46.02202 (12100624)     36.97121 (13071024)
 3774498.4 |     83.08067 (13020219)     75.09905 (15091321)     58.51099 (13112002)
    46.03293 (12071704)     37.67079 (13071024)
 3774479.1 |     88.74690 (15091321)     78.84136 (13083103)     61.56234 (12112317)
    48.65228 (13071024)     38.87567 (12100724)
 3774459.8 |     97.73985 (15091321)     79.35250 (13083103)     62.51253 (12112317)
    49.65921 (13071024)     41.13996 (13071201)
 3774440.5 |    103.28484 (15091321)     82.52101 (12112317)     64.78608 (16070922)
    52.29631 (13083102)     43.11072 (13071201)
 3774421.2 |    105.65671 (13083103)     85.12591 (12112317)     67.47723 (15101420)
    55.66175 (13071201)     43.74327 (12083005)
 3774401.9 |    108.00407 (12112317)     87.25045 (16070922)     70.61219 (13083102)
    57.87562 (13071201)     44.90412 (12081705)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       480750.39              480829.46              480908.53
      480987.60              481066.67
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     20.75593 (13020219)     18.51731 (13083103)     17.04444 (13083103)
    15.06662 (13083103)     13.98061 (12100624)
 3774768.8 |     21.14486 (13020219)     19.22756 (13083103)     17.18417 (13083103)
    15.30134 (12100624)     14.14768 (13071024)
 3774749.5 |     21.40585 (13083103)     19.79566 (13083103)     17.17816 (13083103)
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    15.45868 (12100624)     14.44506 (13071024)
 3774730.2 |     22.63519 (13083103)     20.17783 (13083103)     17.27261 (12100624)
    15.52815 (13071024)     14.66975 (13071024)
 3774710.8 |     23.74215 (13083103)     20.33498 (13083103)     17.60879 (12100624)
    15.97734 (13071024)     14.79790 (13071024)
 3774691.5 |     24.61056 (13083103)     20.24445 (13083103)     17.78546 (12100624)
    16.32108 (13071024)     14.81819 (13071024)
 3774672.2 |     25.12827 (13083103)     20.84836 (12100624)     18.17612 (13071024)
    16.53625 (13071024)     14.86173 (12100724)
 3774652.9 |     25.22049 (13083103)     21.23216 (12100624)     18.72232 (13071024)
    16.58713 (13071024)     14.98455 (12100724)
 3774633.6 |     25.62083 (12100624)     21.41246 (12071704)     19.11525 (13071024)
    16.69791 (12100724)     15.26477 (13071201)
 3774614.3 |     26.42269 (12100624)     22.33319 (13071024)     19.25597 (13071024)
    16.88212 (12100724)     15.48580 (13071201)
 3774595.0 |     26.72630 (12100624)     22.96942 (13071024)     19.45640 (12100724)
    17.30063 (13071201)     15.60630 (12081705)
 3774575.7 |     27.62292 (13071024)     23.21695 (13071024)     19.75207 (13071201)
    17.57844 (13071201)     15.93230 (12081705)
 3774556.4 |     28.69424 (13071024)     23.64389 (12100724)     20.44996 (13071201)
    17.80771 (12081705)     16.12368 (12081705)
 3774537.1 |     29.13070 (13071024)     24.27492 (13071201)     20.87320 (13071201)
    18.25167 (12081705)     16.15871 (12081705)
 3774517.7 |     29.86460 (12100724)     25.26294 (13071201)     21.17286 (12081705)
    18.44647 (12081705)     16.26316 (12082922)
 3774498.4 |     31.07660 (13071201)     25.79222 (13071201)     21.71377 (12081705)
    18.44804 (12082922)     16.50095 (12081401)
 3774479.1 |     32.51758 (13071201)     26.29305 (12081705)     21.86853 (12081705)
    18.74842 (12082922)     16.68347 (12081401)
 3774459.8 |     33.10900 (13071201)     26.92730 (12081705)     22.19501 (12082922)
    19.12437 (12081401)     16.69135 (12081401)
 3774440.5 |     33.93861 (12081705)     27.06419 (12082922)     22.69854 (12081401)
    19.25812 (12081401)     16.60480 (12091923)
 3774421.2 |     34.45596 (12081705)     27.76153 (12082922)     23.02842 (12081401)
    19.09415 (12081401)     16.93376 (12091923)
 3774401.9 |     35.26275 (12082922)     28.55797 (12081401)     22.84592 (12081401)
    19.36677 (12091923)     16.94029 (12091923)
*** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                  INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,
```

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 481145.74	481224.81	481303.88	481382.95	481462.02
3774788.1	13.32680 (13071024)	12.63377 (13071024)	11.88280 (12100724)	11.36913 (13071201)	11.00520 (13071201)
3774768.8	13.48373 (13071024)	12.62454 (13071024)	11.94963 (12100724)	11.50646 (13071201)	11.03618 (13071201)
3774749.5	13.56789 (13071024)	12.64646 (12100724)	12.06166 (13071201)	11.58458 (13071201)	11.08948 (12081705)
3774730.2	13.56363 (13071024)	12.71441 (12100724)	12.18703 (13071201)	11.60500 (13071201)	11.20062 (12081705)
3774710.8	13.58103 (12100724)	12.86644 (13071201)	12.26689 (13071201)	11.73719 (12081705)	11.25889 (12081705)
3774691.5	13.66805 (12100724)	13.01685 (13071201)	12.32523 (12081705)	11.83942 (12081705)	11.26001 (12081705)
3774672.2	13.86275 (13071201)	13.08183 (13071201)	12.48087 (12081705)	11.87506 (12081705)	11.22139 (12082922)
3774652.9	14.03691 (13071201)	13.22492 (12081705)	12.57096 (12081705)	11.85318 (12081705)	11.32592 (12081401)
3774633.6	14.11810 (13071201)	13.39160 (12081705)	12.59200 (12081705)	11.88931 (12082922)	11.43837 (12081401)
3774614.3	14.35019 (12081705)	13.45498 (12081705)	12.54173 (12082922)	12.00397 (12081401)	11.49063 (12081401)
3774595.0	14.51631 (12081705)	13.43851 (12081705)	12.64036 (12081401)	12.08630 (12081401)	11.48161 (12081401)
3774575.7	14.57385 (12081705)	13.47130 (12082922)	12.78015 (12081401)	12.13234 (12081401)	11.42693 (12081401)
3774556.4	14.52980 (12082922)	13.62834 (12081401)	12.83280 (12081401)	12.09000 (12081401)	11.39370 (12091923)
3774537.1	14.68875 (12081401)	13.72677 (12081401)	12.81605 (12081401)	11.99644 (12091923)	11.51064 (12091923)
3774517.7	14.87668 (12081401)	13.72906 (12081401)	12.71262 (12081401)	12.12455 (12091923)	11.55737 (12091923)
3774498.4	14.95828 (12081401)	13.68333 (12081401)	12.82487 (12091923)	12.18680 (12091923)	11.61755 (12081424)
3774479.1	14.90386 (12081401)	13.76866 (12091923)	12.91566 (12091923)	12.25043 (12081424)	11.65001 (12081424)
3774459.8	14.90410 (12091923)	13.90007 (12091923)	12.99649 (12081424)	12.28080 (12081424)	11.62435 (12081424)
3774440.5	15.10833 (12091923)	13.93882 (12081424)	13.03265 (12081424)		

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    12.24615 (12081424)     11.53360 (12081424)
 3774421.2 |     15.17428 (12091923)     13.98270 (12081424)     12.98677 (12081424)
    12.11714 (12091921)     11.50466 (13020118)
 3774401.9 |     15.27692 (12081424)     13.92403 (12081424)     12.87296 (12091921)
    12.15508 (13020118)     11.67461 (12071324)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLING   ***
                                 INCLUDING SOURCE(S):     STCK1       , STCK2
, STCK3       , STCK4       , STCK5       ,
                 STCK6       , STCK7       , STCK8       , STCK9       ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       481541.09
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     10.54388 (13071201)
 3774768.8 |     10.63933 (12081705)
 3774749.5 |     10.70529 (12081705)
 3774730.2 |     10.72128 (12081705)
 3774710.8 |     10.68757 (12081705)
 3774691.5 |     10.72041 (12082922)
 3774672.2 |     10.82795 (12081401)
 3774652.9 |     10.91725 (12081401)
 3774633.6 |     10.94931 (12081401)
 3774614.3 |     10.92968 (12081401)
 3774595.0 |     10.85790 (12081401)
 3774575.7 |     10.87851 (12091923)
 3774556.4 |     10.97088 (12091923)
 3774537.1 |     11.00678 (12091923)
 3774517.7 |     11.08423 (12081424)
 3774498.4 |     11.15408 (12081424)
 3774479.1 |     11.10040 (12081424)
 3774459.8 |     10.90959 (12081424)
 3774440.5 |     10.84326 (13020118)
 3774421.2 |     10.89318 (12071324)
```

3774401.9 | 10.97901 (12071324)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLING   ***
INCLUDING SOURCE(S):   STCK1   , STCK2   , STCK3   , STCK4   , STCK5   ,
STCK6   , STCK7   , STCK8   , STCK9   ,

*** 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)
479864.11	3774072.83	469.37950	(13082721)	479887.91	3774070.12	652.15578	(12090319)
479901.10	3774139.42	367.94663	(15091321)	479776.30	3774149.50	127.70030	(12012310)
479737.27	3774105.54	128.95117	(16013110)	479857.06	3774101.60	432.49101	(14072821)
479856.50	3774053.80	527.25824	(13090122)	479923.42	3774050.99	566.22454	(13062821)
479923.42	3774009.37	593.09708	(12080920)	479737.84	3774014.43	313.01241	(14043024)

*** 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 , . . . ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 479159.28	479197.54	479235.80	479274.06	479312.32
3774809.0	33.92334 (12120608)	34.96374 (12120608)	38.48258 (13021806)	41.50528 (13021806)	42.76040 (13021806)
3774779.4	35.00217 (12120608)	36.89725 (12120608)	38.77107 (13021806)	42.71624 (13021806)	45.34918 (13021806)
3774749.7	35.97669 (12121608)	38.48880 (12120608)	39.95876 (12120608)	43.39553 (13021806)	47.45711 (13021806)
3774720.0	38.17972 (12121608)	39.19781 (12120608)	41.98890 (12120608)	43.22208 (13021806)	48.59185 (13021806)
3774690.4	39.90624 (12121608)	41.23642 (12121608)	43.16401 (12120608)	45.58347 (12120608)	48.67807 (13021806)
3774660.7	40.88544 (12121608)	43.39676 (12121608)	44.20981 (12121608)	47.45667 (12120608)	49.34270 (12120608)
3774631.1	40.94515 (12121608)	44.76129 (12121608)	47.23611 (12121608)	48.09856 (12120608)	51.98781 (12120608)
3774601.4	40.21562 (12121608)	45.00606 (12121608)	49.29542 (12121608)	51.47778 (12121608)	53.47148 (12120608)
3774571.7	42.72170 (12123106)	44.08478 (12121608)	49.57539 (12121608)	53.93799 (12121608)	55.72273 (14022221)
3774542.1	46.08615 (12123106)	46.56605 (12123106)	48.46136 (12121608)	54.68341 (12121608)	59.14978 (12121608)
3774512.4	47.90356 (12123106)	50.38108 (12123106)	50.80712 (12123106)	53.41341 (12121608)	60.25124 (12121608)
3774482.8	48.31128 (12022807)	52.43334 (12123106)	55.21890 (12123106)	55.39184 (12123106)	58.73135 (12121608)
3774453.1	48.98045 (14011320)	52.64842 (12022807)	57.24444 (12123106)	60.48856 (12123106)	60.12525 (12123106)
3774423.4	51.70748 (13070106)	53.35772 (14011320)	57.15580 (12022807)	62.62527 (12123106)	66.23489 (12123106)
3774393.8	57.48950 (12010901)	57.80629 (12010901)	57.95540 (13070106)	62.10410 (12022807)	68.33797 (12123106)
3774364.1	63.79407 (14011322)	64.55642 (14011322)	64.86579 (12010901)	63.91253 (12010901)	67.22393 (12022807)
3774334.5	69.07174 (14011322)	71.78987 (14011322)	73.14786 (14011322)	73.07947 (14011322)	72.41002 (12010901)

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 3774304.8 |     72.21730 (14011322)     76.84890 (14011322)     80.79439 (14011322)
    83.42893 (14011322)     84.27875 (14011322)
 3774275.1 |     76.81842 (14011323)     79.47035 (14011322)     85.61205 (14011322)
    91.16216 (14011322)     95.43895 (14011322)
 3774245.5 |     86.99420 (14011323)     91.25787 (14011323)     94.99481 (14011323)
    97.67650 (14011323)    102.80721 (14011322)
 3774215.8 |    115.07307 (15022217)    121.60410 (15022217)    127.32089 (15022217)
   133.05015 (15022217)    138.74940 (15022217)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE 105
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479350.58               479388.84               479427.10
      479465.36               479503.62
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     46.56176 (12121607)     48.50305 (12121607)     47.39955 (12121607)
    46.82019 (13030405)     50.20727 (13030405)
 3774779.4 |     47.71205 (12121607)     51.00638 (12121607)     51.13707 (12121607)
    48.22556 (14020506)     53.07106 (13030405)
 3774749.7 |     49.01370 (13021806)     53.19786 (12121607)     54.96642 (12121607)
    52.52426 (12121607)     55.43049 (13030405)
 3774720.0 |     52.09202 (13021806)     54.22241 (12121607)     58.09026 (12121607)
    57.24480 (12121607)     56.96149 (13030405)
 3774690.4 |     54.23894 (13021806)     55.75109 (13021806)     61.09767 (12121607)
    62.53102 (12121607)     59.27176 (14020506)
 3774660.7 |     55.20066 (13021806)     59.31623 (13021806)     62.55178 (12121607)
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    66.74320 (12121607)     64.11449 (12121607)
 3774631.1 |     54.56975 (13021806)     61.49127 (13021806)     64.07307 (13021806)
    69.92747 (12121607)     70.20399 (12121607)
 3774601.4 |     56.79833 (12120608)     62.17150 (13021806)     68.56594 (13021806)
    72.19466 (12121607)     76.28605 (12121607)
 3774571.7 |     59.41404 (12120608)     61.17744 (13021806)     71.17768 (13021806)
    74.33313 (13021806)     81.60017 (12121607)
 3774542.1 |     60.73506 (14022221)     64.71581 (12120608)     71.31456 (13021806)
    79.64818 (13021806)     84.61874 (12121607)
 3774512.4 |     64.63407 (12121608)     66.57088 (12120608)     70.27715 (12120608)
    81.61715 (13021806)     86.03369 (13021806)
 3774482.8 |     66.47722 (12121608)     70.41251 (14022221)     73.88185 (12120608)
    80.79229 (13021806)     92.36331 (13021806)
 3774453.1 |     65.30182 (12121608)     73.28604 (12121608)     76.43132 (14022221)
    81.44479 (12120608)     94.43016 (13021806)
 3774423.4 |     65.98094 (12123106)     72.34058 (12121608)     80.21428 (12121608)
    83.08560 (12120608)     91.84684 (13021806)
 3774393.8 |     72.83393 (12123106)     71.67038 (12123106)     80.47051 (12121608)
    87.84254 (12121608)     93.19709 (12120608)
 3774364.1 |     74.86659 (12123106)     79.97119 (12123106)     78.60926 (12123106)
    90.22676 (12121608)     96.16688 (12121608)
 3774334.5 |     73.34518 (14011320)     81.77369 (12123106)     88.09609 (12123106)
    86.16986 (12123106)    101.26349 (12121608)
 3774304.8 |     83.18557 (14011322)     82.60244 (16010516)     89.59038 (12123106)
    97.25772 (12123106)     98.27693 (12121608)
 3774275.1 |     98.77712 (14011322)     98.72453 (14011322)    101.66705 (16010516)
   109.69239 (16010516)    119.16317 (14120316)
 3774245.5 |    110.21753 (14011322)    115.74511 (14011322)    118.69873 (14011322)
   131.34560 (14120316)    146.22470 (14120316)
 3774215.8 |    143.90638 (15022217)    148.81059 (14120316)    161.70552 (14120316)
   177.66182 (14120316)    197.06981 (14120316)
```



```
 *** 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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*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 479541.88	479580.14	479618.40	479656.66	479694.92
3774809.0	49.00171 (13082802)	51.32061 (14040922)	53.49867 (12121523)	57.09460 (12021321)	57.67051 (14022507)
3774779.4	52.88822 (13030405)	53.98906 (14040922)	55.75292 (12121523)	60.27880 (12021321)	61.44480 (14022507)
3774749.7	57.22395 (13030405)	56.44679 (14051320)	58.47679 (14040922)	63.79285 (12121523)	65.48961 (14022507)
3774720.0	61.35017 (13030405)	59.68315 (13082802)	62.55060 (14040922)	67.38002 (12121523)	69.68110 (14022507)
3774690.4	64.94426 (13030405)	63.84060 (13100618)	66.44755 (14040922)	70.93700 (12121523)	74.06567 (14022507)
3774660.7	67.50410 (13030405)	68.81339 (13030405)	69.90839 (14040922)	74.29559 (12121523)	78.57705 (14022507)
3774631.1	68.88758 (13030405)	74.34714 (13030405)	72.83990 (14051320)	78.14384 (16102018)	83.28710 (12021321)
3774601.4	71.30691 (14020506)	79.12020 (13030405)	75.55079 (14051320)	81.53526 (16102018)	88.48877 (12021321)
3774571.7	79.19322 (12121607)	82.59889 (13030405)	81.37924 (13030405)	85.19842 (16102721)	93.74924 (12021321)
3774542.1	87.63840 (12121607)	84.32203 (13030405)	88.99271 (13030405)	89.09371 (14040922)	99.29052 (12121523)
3774512.4	94.79467 (12121607)	88.51482 (12121607)	95.72482 (13030405)	92.99514 (14040922)	104.89045 (12121523)
3774482.8	99.44436 (12121607)	100.00123 (12121607)	100.63907 (13030405)	95.55947 (14040922)	110.28350 (12121523)
3774453.1	100.74312 (12121607)	110.36814 (12121607)	103.13543 (13030405)	106.01923 (13030405)	115.43447 (12121523)
3774423.4	107.65562 (13021806)	117.87805 (12121607)	113.80493 (12121607)	116.14469 (13030405)	119.81290 (12121523)
3774393.8	109.19321 (13021806)	120.82012 (12121607)	129.22479 (12121607)	124.14149 (13030405)	123.95004 (12121523)
3774364.1	104.69370 (13021806)	126.66668 (13021806)	141.74301 (12121607)	129.41262 (12121607)	128.21383 (12121523)
3774334.5	106.56458 (12120608)	128.73657 (13021806)	149.13041 (12121607)	154.19422 (12121607)	144.79155 (13030405)
3774304.8	114.28597 (12121608)	123.42465 (12120608)	154.32171 (13021806)	177.55512 (12121607)	167.24893 (15100407)
3774275.1	126.96264 (14120316)	133.74037 (12121608)	159.82516 (13021806)	197.36275 (12121607)	194.55949 (15100407)

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 3774245.5 |    161.20862 (14120316)    172.71755 (14120316)    174.89153 (14120316)
   212.24726 (13050618)    242.53819 (12121607)
 3774215.8 |    219.56141 (14120316)    242.87727 (14120316)    260.67212 (14120316)
   260.08243 (14120316)    302.34580 (13050618)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       14:51:38

                                PAGE 107
 *** 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    ,  . . .      ,

                                 *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       479733.18              479771.44              479809.70
      479847.96              479886.22
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 3774809.0 |     54.25687 (15071921)     53.67502 (12110518)     54.31732 (14100219)
    55.26228 (13051201)     57.70895 (12083104)
 3774779.4 |     58.16337 (15071921)     58.18915 (12110518)     58.96789 (14100219)
    60.37413 (13051201)     62.32413 (12083104)
 3774749.7 |     62.31403 (15071921)     62.91664 (12110518)     63.67225 (14100219)
    65.82092 (13051201)     67.10655 (12083104)
 3774720.0 |     66.73749 (15071921)     67.85794 (12110518)     68.67640 (14100219)
    71.65538 (13051201)     71.98972 (12083104)
 3774690.4 |     71.39468 (15071921)     72.85733 (12110518)     73.80316 (14100219)
    77.72744 (13051201)     77.08058 (13072103)
 3774660.7 |     76.26599 (15071921)     77.98596 (12110518)     79.03424 (14100219)
    84.06181 (13051201)     83.59516 (15101119)
 3774631.1 |     81.32255 (15071921)     83.17920 (12110518)     84.30736 (14100219)
    90.62442 (13051201)     90.50075 (15101119)
 3774601.4 |     86.54049 (15071921)     88.37442 (12110518)     89.63591 (14100219)
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    97.34020 (13051201)     97.47015 (15101119)
 3774571.7 |     92.94657 (14022507)     93.41057 (12110518)     94.81929 (14100219)
   104.06062 (13051201)    104.29533 (15101119)
 3774542.1 |    100.07860 (14022507)     98.28205 (12110518)     99.88093 (14100219)
   110.72755 (13051201)    110.73229 (15101119)
 3774512.4 |    107.81746 (14022507)    102.94193 (12110518)    106.29712 (13051201)
   117.18996 (13051201)    116.46636 (15101119)
 3774482.8 |    116.23145 (14022507)    107.36874 (12110518)    113.21820 (13051201)
   123.31577 (13051201)    122.68034 (13050320)
 3774453.1 |    125.33958 (14022507)    113.28875 (12102005)    120.30444 (13051201)
   129.07239 (14051620)    131.80206 (15031519)
 3774423.4 |    134.74821 (14022507)    119.86165 (12102005)    127.19009 (13051201)
   136.77721 (15101119)    143.73461 (15031519)
 3774393.8 |    145.52136 (12021321)    126.83918 (12102005)    134.63989 (13051201)
   145.01398 (15101119)    155.52132 (15031519)
 3774364.1 |    158.43663 (12021321)    139.63526 (14022507)    142.73380 (13051201)
   152.97554 (15101119)    165.96358 (15031519)
 3774334.5 |    173.49392 (12021321)    156.84977 (14022507)    155.71001 (12110907)
   160.81800 (15101119)    173.95188 (15031519)
 3774304.8 |    191.73622 (12021321)    180.97331 (13042407)    174.32589 (12110907)
   178.35756 (15031519)    197.70724 (14011618)
 3774275.1 |    215.04243 (12021321)    226.48022 (13042407)    197.89659 (12110907)
   202.49287 (15031519)    244.53299 (12022716)
 3774245.5 |    250.18684 (15100407)    291.89217 (13042407)    228.69861 (12110907)
   266.03387 (12022716)    335.90638 (12022716)
 3774215.8 |    328.90366 (15100407)    392.12232 (13042407)    299.12596 (12022716)
   402.74899 (12022716)    449.81994 (12022716)
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE 108
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

Y-COORD | X-COORD (METERS)
(METERS) | 479924.48

- -

Y-COORD (METERS)	479924.48
3774809.0	55.99752 (14012819)
3774779.4	60.75004 (12092102)
3774749.7	65.79804 (15101119)
3774720.0	70.90587 (15101119)
3774690.4	76.15512 (13050320)
3774660.7	82.17058 (13050320)
3774631.1	88.29083 (16112417)
3774601.4	95.10245 (12082023)
3774571.7	103.90494 (15031519)
3774542.1	113.31980 (15031519)
3774512.4	122.37969 (15031519)
3774482.8	130.39483 (15031519)
3774453.1	136.48814 (15031519)
3774423.4	142.43371 (16020918)
3774393.8	159.18972 (14011618)
3774364.1	182.37473 (14011618)
3774334.5	203.11091 (14011618)
3774304.8	230.14274 (12022716)
3774275.1	292.03228 (12022716)
3774245.5	332.13896 (12022716)
3774215.8	368.29123 (12022716)

*** 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

```
                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                  X-COORD (METERS)
  (METERS) |       479959.69               480038.76               480117.83
      480196.90               480275.97
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     57.52965 (12103122)     70.17043 (13070104)     70.26103 (15090206)
    70.76710 (13070304)     66.55657 (12121724)
 3774768.8 |     60.77390 (12082023)     72.87379 (14061903)     72.68719 (15090206)
    72.12213 (13070304)     68.91761 (12121724)
 3774749.5 |     64.27826 (12082023)     76.23663 (14061903)     80.62898 (13070304)
    76.00786 (13090906)     72.24816 (12121724)
 3774730.2 |     67.85198 (12082023)     73.99364 (14061903)     82.97096 (13070304)
    77.69259 (13090906)     73.17460 (12121724)
 3774710.8 |     71.72343 (15031519)     71.11893 (12051523)     86.89340 (13070304)
    79.48376 (13090906)     76.70111 (12120619)
 3774691.5 |     76.30424 (15031519)     72.59684 (16020918)     82.29656 (13070304)
    80.51967 (13090906)     79.42149 (12120619)
 3774672.2 |     81.01312 (15031519)     76.36167 (13101518)     86.00983 (13070304)
    83.96878 (12121724)     83.76512 (13030404)
 3774652.9 |     85.79858 (15031519)     83.32514 (14011618)     92.06618 (13070304)
    89.25262 (12121724)     89.64111 (13030404)
 3774633.6 |     90.52777 (15031519)     90.44805 (14011618)     93.96827 (13070304)
    93.60127 (12121724)     95.42290 (13020223)
 3774614.3 |     95.11797 (15031519)     97.83923 (14011618)    101.11276 (12122323)
    97.87329 (12120619)    100.45297 (13020223)
 3774595.0 |     99.38342 (15031519)    105.22409 (14011618)    108.10068 (13090906)
   105.94045 (12120619)    103.44282 (13020223)
 3774575.7 |    103.20471 (15031519)    112.23752 (14011618)    112.54636 (13090906)
   113.52179 (12120619)    103.88515 (13020223)
 3774556.4 |    106.50309 (13122903)    118.41132 (14011618)    117.40537 (13090906)
   119.68060 (13030404)    109.13618 (13070402)
 3774537.1 |    110.90751 (13122903)    124.26500 (12071220)    126.09451 (12121724)
   126.20450 (13020223)    117.17071 (13070402)
 3774517.7 |    115.75883 (16020918)    129.27144 (12071220)    131.12429 (12121724)
   131.85412 (13020223)    124.05053 (12091001)
 3774498.4 |    122.17869 (16020918)    132.11727 (12071220)    140.91761 (12120619)
   134.53221 (13020223)    127.85765 (12091001)
 3774479.1 |    130.22485 (14011618)    138.79550 (15101019)    152.29836 (12120619)
   140.39518 (13070402)    131.02241 (12083024)
 3774459.8 |    142.26876 (14011618)    145.81869 (15101019)    160.02319 (13030404)
   152.62424 (13070402)    133.44668 (14040821)
 3774440.5 |    154.31283 (14011618)    154.01500 (15121021)    168.36744 (13020223)
   161.68062 (12091001)    138.57743 (14040821)
 3774421.2 |    165.58287 (14011618)    168.71129 (15121021)    173.18586 (13020223)
   165.70744 (12091001)    144.98769 (12071323)
 3774401.9 |    175.09348 (14011618)    179.99036 (15121021)    168.69734 (14052101)
```

*** 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 480355.04	480434.11	480513.18	480592.25	480671.32
3774788.1	64.55587 (13030404)	64.49882 (13020223)	58.81679 (13070402)	56.77785 (12091001)	53.68468 (14040821)
3774768.8	67.46279 (13030404)	65.65931 (13020223)	62.12779 (12091001)	57.55535 (12083024)	54.58773 (14040821)
3774749.5	71.62143 (13020223)	66.37712 (13020223)	64.91522 (12091001)	58.40502 (12083024)	55.60010 (12071323)
3774730.2	75.51209 (13020223)	67.18960 (13070402)	67.02696 (12091001)	60.26164 (14040821)	56.85408 (12071323)
3774710.8	79.00468 (13020223)	71.18628 (13070402)	68.17498 (12091001)	61.81055 (14040821)	57.97644 (12071323)
3774691.5	81.39328 (13020223)	75.20851 (12091001)	69.10276 (12083024)	62.73778 (14040821)	59.53534 (12081324)
3774672.2	82.66346 (13020223)	78.07945 (12091001)	69.43902 (14040821)	64.66975 (12071323)	61.87083 (12081324)
3774652.9	83.23918 (13041822)	81.78902 (12091001)	72.73370 (14040821)	65.90302 (12071323)	63.66810 (12081324)
3774633.6	88.20893 (13070402)	83.51166 (12091001)	74.65752 (14040821)	67.97296 (12071222)	64.69118 (12081324)

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 3774614.3 |     93.87452 (13070402)     83.99189 (12083024)     76.75857 (12071323)
    70.84113 (12071222)     64.75469 (12081324)
 3774595.0 |     99.25530 (12091001)     86.06319 (14040821)     79.44552 (12071323)
    73.06612 (12071222)     66.92165 (13090224)
 3774575.7 |    103.38916 (12091001)     89.36091 (14040821)     82.19545 (12071222)
    74.06405 (12081324)     69.16360 (13090224)
 3774556.4 |    105.38211 (12083024)     92.61496 (12071323)     86.33223 (12081324)
    74.34432 (13090224)     70.62329 (13090224)
 3774537.1 |    106.43427 (12083024)     96.65737 (12071323)     89.36235 (12081324)
    77.81438 (13090224)     72.02229 (12081522)
 3774517.7 |    110.27535 (14040821)    101.26054 (12081324)     89.45776 (12081324)
    79.79998 (13090224)     73.50452 (13071024)
 3774498.4 |    113.22320 (12071323)    106.35139 (12081324)     90.55967 (13090224)
    81.44025 (12081522)     75.53989 (13090822)
 3774479.1 |    119.19042 (12071323)    109.76845 (12081324)     96.29446 (13090224)
    83.43933 (13071024)     77.38368 (12082306)
 3774459.8 |    125.44388 (12081324)    109.65442 (12081324)     99.75884 (12081522)
    88.87453 (13090822)     80.19566 (13070323)
 3774440.5 |    133.17729 (12081324)    116.29254 (13090224)     99.63167 (13071024)
    87.54686 (12081223)     80.26955 (12081122)
 3774421.2 |    138.15538 (12081324)    114.26214 (13090224)     96.98954 (12081223)
    87.33738 (13070323)     76.66610 (12081122)
 3774401.9 |    132.23110 (13090224)    117.81463 (12081522)    109.58550 (12082306)
    96.68136 (12081122)     82.65864 (12081705)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***       14:51:38

                                 PAGE 111
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

  Y-COORD  |                                                X-COORD (METERS)
```

```
 (METERS) |      480750.39              480829.46              480908.53
     480987.60              481066.67
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

 3774788.1 |     50.93317 (12071323)     48.15597 (12081324)     45.12217 (12081324)
    43.28229 (13090224)     42.22706 (13071024)
 3774768.8 |     51.49773 (12071323)     49.00326 (12081324)     44.79307 (12081324)
    44.23157 (13090224)     42.89825 (13071024)
 3774749.5 |     52.38378 (12081324)     49.24772 (12081324)     46.00216 (13090224)
    44.45078 (13090224)     43.10765 (13071024)
 3774730.2 |     53.90804 (12081324)     49.08651 (12081324)     46.91859 (13090224)
    44.74408 (12081522)     43.24379 (13071024)
 3774710.8 |     55.06267 (12081324)     48.62290 (12081324)     47.52076 (13090224)
    45.35739 (13071024)     43.46641 (13070303)
 3774691.5 |     55.72853 (12081324)     50.82545 (13090224)     48.04078 (12081522)
    45.58717 (13071024)     43.94105 (13070303)
 3774672.2 |     55.80062 (12081324)     52.17513 (13090224)     48.52809 (12081522)
    46.16195 (13090822)     44.22008 (13090822)
 3774652.9 |     56.80689 (13090224)     52.63271 (13090224)     48.55631 (13081201)
    46.51940 (13090822)     44.98906 (13070323)
 3774633.6 |     58.61137 (13090224)     53.61112 (12081522)     50.01707 (13090822)
    47.08990 (13090822)     45.65631 (13070323)
 3774614.3 |     59.89907 (13090224)     54.07653 (13081201)     50.92577 (13090822)
    47.79257 (13070323)     46.17557 (12081122)
 3774595.0 |     60.83711 (12081522)     55.18682 (13090822)     51.13077 (13090822)
    48.51400 (12081122)     46.67795 (12081705)
 3774575.7 |     61.56528 (12081522)     56.13837 (13090822)     51.72074 (13070323)
    48.88116 (12081122)     47.14884 (12081705)
 3774556.4 |     62.39985 (13090822)     57.30085 (13090822)     53.39858 (12081122)
    49.75195 (12081122)     47.23509 (12081705)
 3774537.1 |     64.41825 (13090822)     59.00392 (13070323)     54.59226 (12081122)
    50.68622 (12081705)     47.50290 (13071323)
 3774517.7 |     65.46131 (13090822)     59.95715 (12081122)     54.63088 (12081122)
    50.85507 (13071323)     47.98443 (13071823)
 3774498.4 |     67.25871 (13070323)     60.86632 (12081122)     55.15589 (13071323)
    51.07998 (13071823)     48.55734 (13071823)
 3774479.1 |     69.14368 (12081122)     60.92538 (12081122)     55.17814 (13071323)
    51.52513 (13071823)     48.69788 (13071823)
 3774459.8 |     70.86637 (12081122)     62.25130 (13071323)     56.51990 (13071823)
    52.19392 (13071823)     49.46084 (12080405)
 3774440.5 |     72.01110 (12081705)     63.04533 (13071323)     57.46593 (13071823)
    52.82816 (12080405)     50.85614 (12092424)
 3774421.2 |     72.93738 (13071323)     62.01797 (13071823)     57.16393 (13071823)
    54.29575 (12092424)     51.70749 (12092424)
 3774401.9 |     74.08344 (13071823)     63.66879 (13071823)     55.62080 (12092424)
    51.16585 (12092424)     48.97325 (13071124)
```

*** 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 , . . . ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 481145.74	481224.81	481303.88	481382.95	481462.02
3774788.1	41.19836 (13071024)	39.36991 (13071024)	38.13729 (13070303)	37.37820 (13070323)	36.51626 (12081705)
3774768.8	41.27139 (13071024)	39.84399 (13070303)	38.87685 (13070323)	37.76162 (13070323)	37.26153 (12081705)
3774749.5	41.32477 (13070303)	40.07661 (13070303)	39.42519 (13070323)	38.15122 (12081705)	37.71789 (12081705)
3774730.2	41.75399 (13070303)	40.78587 (13070323)	39.54026 (13070323)	38.85501 (12081705)	37.94009 (12081705)
3774710.8	41.90638 (13070303)	41.40346 (13070323)	40.18068 (12081705)	39.30075 (12081705)	37.98471 (12081705)
3774691.5	42.63989 (13070323)	41.68918 (13070323)	40.74660 (12081705)	39.49839 (12081705)	37.93076 (12082922)
3774672.2	43.17515 (13070323)	42.24828 (12081705)	41.04001 (12081705)	39.37103 (12081705)	38.26622 (12082922)
3774652.9	43.41175 (13070323)	42.84296 (12081705)	41.14726 (12081705)	39.63731 (12082922)	38.64996 (12082922)
3774633.6	44.16003 (12081705)	43.24008 (12081705)	41.06395 (12082922)	40.00904 (12082922)	38.67587 (12081401)
3774614.3	44.56726 (12081705)	42.94582 (12081705)	41.31428 (12082922)	39.86583 (12082922)	38.56925 (12081401)
3774595.0	44.64130 (12081705)	42.84336 (12082922)	41.16385 (12082922)	39.78109 (12081401)	38.66414 (12080405)

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 3774575.7 |     44.47573 (13070302)     42.88625 (12082922)     41.51414 (13082403)
    40.53694 (12080405)     39.30347 (12080405)
 3774556.4 |     44.47996 (13082403)     43.45327 (13082403)     41.66659 (12080405)
    41.21818 (12080405)     39.55669 (12080405)
 3774537.1 |     45.13011 (13082403)     43.44906 (13082403)     42.44172 (12080405)
    41.47719 (12080405)     40.00193 (12081424)
 3774517.7 |     45.33250 (13071823)     43.81498 (12080405)     42.83749 (12080405)
    41.61289 (12092424)     40.49548 (12081424)
 3774498.4 |     45.77220 (12080405)     45.11319 (12080405)     43.21276 (12092424)
    42.02779 (12081424)     40.48846 (12080605)
 3774479.1 |     46.36487 (12092424)     45.98545 (12092424)     43.49930 (12092424)
    42.37110 (12080605)     41.21482 (12080605)
 3774459.8 |     47.08728 (12092424)     46.37107 (12092424)     44.24979 (13071124)
    42.98034 (12080605)     42.06980 (12091921)
 3774440.5 |     47.58146 (12092424)     46.47724 (13071124)     44.75893 (13071124)
    43.83470 (12091921)     42.99569 (12091921)
 3774421.2 |     48.20169 (13071124)     46.69374 (13071124)     45.51210 (12091921)
    44.08128 (12091921)     42.45854 (13020118)
 3774401.9 |     49.12435 (13071124)     47.10725 (12091921)     45.42898 (12091921)
    44.14720 (13020118)     45.05773 (12071324)
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***       14:51:38

                                 PAGE 113
 *** 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    ,  . . .      ,

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

  Y-COORD  |                                                 X-COORD (METERS)
  (METERS) |       481541.09
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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 3774788.1 |     36.74669 (12081705)
 3774768.8 |     36.79637 (12081705)
 3774749.5 |     36.73778 (12081705)
 3774730.2 |     36.49052 (12081705)
 3774710.8 |     36.65192 (12082922)
 3774691.5 |     36.93627 (12082922)
 3774672.2 |     37.07310 (12081401)
 3774652.9 |     37.29727 (12081401)
 3774633.6 |     37.20637 (12081401)
 3774614.3 |     37.36380 (12080405)
 3774595.0 |     37.84976 (12080405)
 3774575.7 |     38.10523 (12080405)
 3774556.4 |     38.58242 (12081424)
 3774537.1 |     39.04481 (12081424)
 3774517.7 |     39.42216 (12081424)
 3774498.4 |     40.86543 (12081424)
 3774479.1 |     40.87943 (12091921)
 3774459.8 |     39.47518 (12091921)
 3774440.5 |     38.70416 (13020118)
 3774421.2 |     38.35381 (12101419)
 3774401.9 |     38.23494 (13082722)
```

```
        479864.11   3774072.83      795.37624  (12011516)                479887.91
3774070.12      817.40200  (12011516)
        479901.10   3774139.42      473.73980  (12031716)                479776.30
3774149.50      749.88538  (13042407)
        479737.27   3774105.54     2175.27689  (12041107)                479857.06
3774101.60      710.28323  (12031716)
        479856.50   3774053.80      861.19951  (14091721)                479923.42
3774050.99      639.46011  (13062821)
        479923.42   3774009.37      657.70630  (12080920)                479737.84
3774014.43     1115.87463  (13112916)
🡅 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                       NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

TRUCKS    1ST HIGHEST VALUE IS      54.40666 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS      37.12966 AT (  479235.80,  3774215.83,   350.40,
 2401.30,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      37.02091 AT (  479274.06,  3774215.83,   350.70,
 2401.30,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      36.87321 AT (  479197.54,  3774215.83,   350.00,
 2401.30,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS      36.87054 AT (  479312.32,  3774215.83,   351.00,
 2401.30,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS      36.72357 AT (  479350.58,  3774215.83,   351.40,
 2401.30,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS      36.53309 AT (  479388.84,  3774215.83,   351.70,
 2401.30,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS      36.32456 AT (  479427.10,  3774215.83,   352.00,
 2401.30,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      36.11371 AT (  479465.36,  3774215.83,   352.40,
 2401.30,    0.00)  GC  UCART1
```

```
        10TH HIGHEST VALUE IS      35.87737 AT (  479503.62,  3774215.83,   352.80,
 2401.30,    0.00)  GC  UCART1

FORK      1ST HIGHEST VALUE IS     773.30965 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     164.99377 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS     157.52966 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS      98.00542 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS      96.64286 AT (  479856.50,  3774053.80,   354.46,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS      91.00832 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
          7TH HIGHEST VALUE IS      63.59709 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
          8TH HIGHEST VALUE IS      50.09786 AT (  479771.44,  3774215.83,   355.00,
 2401.30,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      48.76415 AT (  479733.18,  3774215.83,   354.60,
 2401.30,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS      44.98049 AT (  479809.70,  3774215.83,   355.30,
 2401.30,    0.00)  GC  UCART1

IDLING    1ST HIGHEST VALUE IS     115.11383 AT (  479856.50,  3774053.80,   354.46,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     102.52651 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS      97.89784 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS      63.29878 AT (  479923.42,  3774050.99,   355.23,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS      61.46303 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS      46.74880 AT (  479923.42,  3774009.37,   354.91,
 2401.29,    0.00)  DC
          7TH HIGHEST VALUE IS      15.62386 AT (  479901.10,  3774139.42,   356.02,
 2401.29,    0.00)  DC
          8TH HIGHEST VALUE IS      13.49267 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          9TH HIGHEST VALUE IS      11.63804 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
         10TH HIGHEST VALUE IS       9.50155 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC

ALL       1ST HIGHEST VALUE IS     804.66854 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     223.57435 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS     223.30648 AT (  479856.50,  3774053.80,   354.46,
```

```
 2401.29,    0.00)  DC
         4TH HIGHEST VALUE IS     200.66543 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
         5TH HIGHEST VALUE IS     195.74166 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC
         6TH HIGHEST VALUE IS     177.05681 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
         7TH HIGHEST VALUE IS     172.78053 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
         8TH HIGHEST VALUE IS     113.19999 AT (  479923.42,  3774050.99,   355.23,
 2401.29,    0.00)  DC
         9TH HIGHEST VALUE IS      89.42590 AT (  479923.42,  3774009.37,   354.91,
 2401.29,    0.00)  DC
        10TH HIGHEST VALUE IS      88.32681 AT (  479771.44,  3774215.83,   355.00,
 2401.30,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                 *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
               **

                                                          DATE
                                            NETWORK
GROUP ID                           AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

TRUCKS   HIGH   1ST HIGH VALUE IS     138.23662  ON 12041107: AT (  479737.84,
3774014.43,   353.27,  2401.29,    0.00)  DC

FORK     HIGH   1ST HIGH VALUE IS    2135.26224  ON 12041107: AT (  479737.27,
3774105.54,   353.73,  2401.29,    0.00)  DC

IDLING   HIGH   1ST HIGH VALUE IS     652.15578  ON 12090319: AT (  479887.91,
```

```
3774070.12,   355.06,  2401.29,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS    2175.27689  ON 12041107: AT (  479737.27,
3774105.54,   353.73,  2401.29,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE 117
 *** 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            2 Warning Message(s)
 A Total of          388 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          191 Calm Hours Identified

 A Total of          197 Missing Hours Identified (  0.45 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1350       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    1350       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

```
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   418 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        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:    418 Source(s);       4 Source Group(s); and     892
Receptor(s)

                with:      9 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    409 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      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **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) =   481.00 ;  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 =      4.5 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   3rd and Central.err

 **File for Summary of Results:   3rd and Central.sum

 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE   2
 *** 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 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 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,

*** AERMOD - VERSION 19191 *** *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\3rd and Central\3r *** 04/05/22

*** AERMET - VERSION 16216 *** *** *** 14:51:38

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
   Surface file:   ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.SFC
                 Met Version:  16216
   Profile file:   ..\RedlandsADJU\RDLD_V9_ADJU\RDLD_v9.PFL

   Surface format: FREE

   Profile format: FREE
```

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

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
12	01	01	1	01	-10.6	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	110.	9.1	285.4	5.5
12	01	01	1	02	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	130.	9.1	284.5	5.5
12	01	01	1	03	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	100.	9.1	285.0	5.5
12	01	01	1	04	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	107.	9.1	284.6	5.5
12	01	01	1	05	-10.7	0.149	-9.000	-9.000	-999.	138.	26.7	0.32	3.22	1.00	1.30	98.	9.1	284.9	5.5
12	01	01	1	06	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	86.	9.1	284.5	5.5
12	01	01	1	07	-5.0	0.102	-9.000	-9.000	-999.	78.	17.9	0.32	3.22	1.00	0.90	91.	9.1	284.0	5.5
12	01	01	1	08	-4.0	0.102	-9.000	-9.000	-999.	78.	22.9	0.32	3.22	0.54	0.90	107.	9.1	285.0	5.5
12	01	01	1	09	44.6	0.237	0.382	0.006	43.	276.	-25.6	0.15	3.22	0.33	2.10	81.	10.1	289.1	5.5
12	01	01	1	10	134.3	0.111	0.882	0.008	176.	99.	-1.0	0.32	3.22	0.26	0.40	72.	9.1	295.1	5.5
12	01	01	1	11	199.8	0.409	1.429	0.005	503.	627.	-29.4	0.15	3.22	0.23	3.68	78.	10.1	297.9	5.5
12	01	01	1	12	232.3	0.300	1.889	0.005	999.	402.	-10.0	0.32	3.22	0.22	1.80	333.	9.1	299.4	5.5
12	01	01	1	13	230.0	0.300	2.134	0.005	1453.	394.	-10.1	0.32	3.22	0.22	1.80	72.	9.1	300.4	5.5
12	01	01	1	14	194.0	0.294	2.109	0.005	1663.	382.	-11.2	0.32	3.22	0.24	1.80	277.	9.1	301.0	5.5
12	01	01	1	15	126.3	0.378	1.872	0.005	1784.	557.	-36.5	0.32	3.22	0.27	2.70	243.	9.1	301.0	5.5
12	01	01	1	16	39.5	0.199	1.278	0.005	1817.	240.	-17.2	0.32	3.22	0.36	1.30	274.	9.1	300.1	5.5
12	01	01	1	17	-4.7	0.101	-9.000	-9.000	-999.	85.	19.0	0.32	3.22	0.65	0.90	252.	9.1	298.2	5.5
12	01	01	1	18	-4.9	0.102	-9.000	-9.000	-999.	78.	18.2	0.32	3.22	1.00	0.90	116.	9.1	296.4	5.5
12	01	01	1	19	-18.8	0.204	-9.000	-9.000	-999.	220.	45.6	0.15	3.22	1.00	2.27	79.	10.1	292.2	5.5
12	01	01	1	20	-5.0	0.102	-9.000	-9.000	-999.	83.	18.1	0.32	3.22	1.00	0.90	95.	9.1	290.2	5.5

```
 12 01 01   1 21   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90   99.    9.1  287.8    5.5
 12 01 01   1 22   -5.0  0.102 -9.000 -9.000 -999.   78.     18.0  0.32   3.22
1.00    0.90  110.    9.1  287.6    5.5
 12 01 01   1 23  -10.6  0.149 -9.000 -9.000 -999.  138.     26.8  0.32   3.22
1.00    1.30   89.    9.1  287.2    5.5
 12 01 01   1 24   -5.0  0.102 -9.000 -9.000 -999.   78.     17.9  0.32   3.22
1.00    0.90  105.    9.1  285.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   285.5   99.0  -99.00  -99.00
 12 01 01 01    9.1 1  110.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                      ***        14:51:38

                                 PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **


                       NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

TRUCKS    1ST HIGHEST VALUE IS      54.40666 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS      37.12966 AT (  479235.80,  3774215.83,   350.40,
 2401.30,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      37.02091 AT (  479274.06,  3774215.83,   350.70,
 2401.30,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      36.87321 AT (  479197.54,  3774215.83,   350.00,
 2401.30,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS      36.87054 AT (  479312.32,  3774215.83,   351.00,
 2401.30,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS      36.72357 AT (  479350.58,  3774215.83,   351.40,
 2401.30,    0.00)  GC  UCART1
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          7TH HIGHEST VALUE IS      36.53309 AT (  479388.84,  3774215.83,   351.70,
 2401.30,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS      36.32456 AT (  479427.10,  3774215.83,   352.00,
 2401.30,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      36.11371 AT (  479465.36,  3774215.83,   352.40,
 2401.30,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS      35.87737 AT (  479503.62,  3774215.83,   352.80,
 2401.30,    0.00)  GC  UCART1

FORK      1ST HIGHEST VALUE IS     773.30965 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     164.99377 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS     157.52966 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS      98.00542 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS      96.64286 AT (  479856.50,  3774053.80,   354.46,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS      91.00832 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
          7TH HIGHEST VALUE IS      63.59709 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
          8TH HIGHEST VALUE IS      50.09786 AT (  479771.44,  3774215.83,   355.00,
 2401.30,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      48.76415 AT (  479733.18,  3774215.83,   354.60,
 2401.30,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS      44.98049 AT (  479809.70,  3774215.83,   355.30,
 2401.30,    0.00)  GC  UCART1

IDLING    1ST HIGHEST VALUE IS     115.11383 AT (  479856.50,  3774053.80,   354.46,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     102.52651 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS      97.89784 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS      63.29878 AT (  479923.42,  3774050.99,   355.23,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS      61.46303 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS      46.74880 AT (  479923.42,  3774009.37,   354.91,
 2401.29,    0.00)  DC
          7TH HIGHEST VALUE IS      15.62386 AT (  479901.10,  3774139.42,   356.02,
 2401.29,    0.00)  DC
          8TH HIGHEST VALUE IS      13.49267 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          9TH HIGHEST VALUE IS      11.63804 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
         10TH HIGHEST VALUE IS       9.50155 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC
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ALL       1ST HIGHEST VALUE IS     804.66854 AT (  479737.27,  3774105.54,   353.73,
 2401.29,    0.00)  DC
          2ND HIGHEST VALUE IS     223.57435 AT (  479737.84,  3774014.43,   353.27,
 2401.29,    0.00)  DC
          3RD HIGHEST VALUE IS     223.30648 AT (  479856.50,  3774053.80,   354.46,
 2401.29,    0.00)  DC
          4TH HIGHEST VALUE IS     200.66543 AT (  479864.11,  3774072.83,   354.64,
 2401.29,    0.00)  DC
          5TH HIGHEST VALUE IS     195.74166 AT (  479776.30,  3774149.50,   354.91,
 2401.29,    0.00)  DC
          6TH HIGHEST VALUE IS     177.05681 AT (  479887.91,  3774070.12,   355.06,
 2401.29,    0.00)  DC
          7TH HIGHEST VALUE IS     172.78053 AT (  479857.06,  3774101.60,   354.61,
 2401.29,    0.00)  DC
          8TH HIGHEST VALUE IS     113.19999 AT (  479923.42,  3774050.99,   355.23,
 2401.29,    0.00)  DC
          9TH HIGHEST VALUE IS      89.42590 AT (  479923.42,  3774009.37,   354.91,
 2401.29,    0.00)  DC
         10TH HIGHEST VALUE IS      88.32681 AT (  479771.44,  3774215.83,   355.00,
 2401.30,    0.00)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                        DATE
                                            NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

TRUCKS   HIGH   1ST HIGH VALUE IS     138.23662  ON 12041107: AT (  479737.84,
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3774014.43,   353.27,  2401.29,    0.00)  DC

FORK     HIGH   1ST HIGH VALUE IS    2135.26224  ON 12041107: AT (  479737.27,
3774105.54,   353.73,  2401.29,    0.00)  DC

IDLING   HIGH   1ST HIGH VALUE IS     652.15578  ON 12090319: AT (  479887.91,
3774070.12,   355.06,  2401.29,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS    2175.27689  ON 12041107: AT (  479737.27,
3774105.54,   353.73,  2401.29,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\3rd and Central\3r ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        14:51:38

                                  PAGE   6
 *** 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            2 Warning Message(s)
 A Total of          388 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          191 Calm Hours Identified

 A Total of          197 Missing Hours Identified (  0.45 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1350       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    1350       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

HARP2 - HRACalc (dated 21081) 4/5/2022 6:29:46 AM - 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\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\ResidentialNCAcuteRiskSumByRec.csv
HRA ran successfully
```

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	479159.3	3774216	1.63E-06	30YrCance	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
2	ALL	UCART1	479197.5	3774216	1.79E-06	30YrCance	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
3	ALL	UCART1	479235.8	3774216	1.97E-06	30YrCance	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
4	ALL	UCART1	479274.1	3774216	2.18E-06	30YrCance	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
5	ALL	UCART1	479312.3	3774216	2.43E-06	30YrCance	2.43E-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
6	ALL	UCART1	479350.6	3774216	2.73E-06	30YrCance	2.73E-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
7	ALL	UCART1	479388.8	3774216	3.11E-06	30YrCance	3.11E-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
8	ALL	UCART1	479427.1	3774216	3.59E-06	30YrCance	3.59E-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
9	ALL	UCART1	479465.4	3774216	4.21E-06	30YrCance	4.21E-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
10	ALL	UCART1	479503.6	3774216	5.02E-06	30YrCance	5.02E-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
11	ALL	UCART1	479541.9	3774216	6.11E-06	30YrCance	6.11E-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
12	ALL	UCART1	479580.1	3774216	7.60E-06	30YrCance	7.60E-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
13	ALL	UCART1	479618.4	3774216	9.62E-06	30YrCance	9.62E-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
14	ALL	UCART1	479656.7	3774216	1.23E-05	30YrCance	1.23E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479694.9	3774216	1.53E-05	30YrCance	1.53E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479733.2	3774216	1.78E-05	30YrCance	1.78E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479771.4	3774216	1.82E-05	30YrCance	1.82E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479809.7	3774216	1.64E-05	30YrCance	1.64E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479848	3774216	1.36E-05	30YrCance	1.36E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479886.2	3774216	1.08E-05	30YrCance	1.08E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.5	3774216	8.57E-06	30YrCance	8.57E-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
22	ALL	UCART1	479159.3	3774245	1.46E-06	30YrCance	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
23	ALL	UCART1	479197.5	3774245	1.61E-06	30YrCance	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
24	ALL	UCART1	479235.8	3774245	1.78E-06	30YrCance	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
25	ALL	UCART1	479274.1	3774245	1.98E-06	30YrCance	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
26	ALL	UCART1	479312.3	3774245	2.21E-06	30YrCance	2.21E-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
27	ALL	UCART1	479350.6	3774245	2.50E-06	30YrCance	2.50E-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
28	ALL	UCART1	479388.8	3774245	2.84E-06	30YrCance	2.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479427.1	3774245	3.27E-06	30YrCance	3.27E-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
30	ALL	UCART1	479465.4	3774245	3.80E-06	30YrCance	3.80E-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
31	ALL	UCART1	479503.6	3774245	4.49E-06	30YrCance	4.49E-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
32	ALL	UCART1	479541.9	3774245	5.37E-06	30YrCance	5.37E-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
33	ALL	UCART1	479580.1	3774245	6.51E-06	30YrCance	6.51E-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
34	ALL	UCART1	479618.4	3774245	7.94E-06	30YrCance	7.94E-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
35	ALL	UCART1	479656.7	3774245	9.62E-06	30YrCance	9.62E-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
36	ALL	UCART1	479694.9	3774245	1.13E-05	30YrCance	1.13E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479733.2	3774245	1.26E-05	30YrCance	1.26E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479771.4	3774245	1.28E-05	30YrCance	1.28E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479809.7	3774245	1.19E-05	30YrCance	1.19E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479848	3774245	1.03E-05	30YrCance	1.03E-05	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479886.2	3774245	8.66E-06	30YrCance	8.66E-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
42	ALL	UCART1	479924.5	3774245	7.18E-06	30YrCance	7.18E-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
43	ALL	UCART1	479159.3	3774275	1.39E-06	30YrCance	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
44	ALL	UCART1	479197.5	3774275	1.53E-06	30YrCance	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
45	ALL	UCART1	479235.8	3774275	1.69E-06	30YrCance	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
46	ALL	UCART1	479274.1	3774275	1.87E-06	30YrCance	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
47	ALL	UCART1	479312.3	3774275	2.09E-06	30YrCance	2.09E-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
48	ALL	UCART1	479350.6	3774275	2.35E-06	30YrCance	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
49	ALL	UCART1	479388.8	3774275	2.65E-06	30YrCance	2.65E-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
50	ALL	UCART1	479427.1	3774275	3.03E-06	30YrCance	3.03E-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
51	ALL	UCART1	479465.4	3774275	3.49E-06	30YrCance	3.49E-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
52	ALL	UCART1	479503.6	3774275	4.06E-06	30YrCance	4.06E-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
53	ALL	UCART1	479541.9	3774275	4.76E-06	30YrCance	4.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479580.1	3774275	5.62E-06	30YrCance	5.62E-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
55	ALL	UCART1	479618.4	3774275	6.63E-06	30YrCance	6.63E-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
56	ALL	UCART1	479656.7	3774275	7.73E-06	30YrCance	7.73E-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
57	ALL	UCART1	479694.9	3774275	8.76E-06	30YrCance	8.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479733.2	3774275	9.44E-06	30YrCance	9.44E-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
59	ALL	UCART1	479771.4	3774275	9.58E-06	30YrCance	9.58E-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
60	ALL	UCART1	479809.7	3774275	9.07E-06	30YrCance	9.07E-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
61	ALL	UCART1	479848	3774275	8.16E-06	30YrCance	8.16E-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
62	ALL	UCART1	479886.2	3774275	7.10E-06	30YrCance	7.10E-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
63	ALL	UCART1	479924.5	3774275	6.07E-06	30YrCance	6.07E-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
64	ALL	UCART1	479159.3	3774305	1.33E-06	30YrCance	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
65	ALL	UCART1	479197.5	3774305	1.46E-06	30YrCance	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
66	ALL	UCART1	479235.8	3774305	1.61E-06	30YrCance	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
67	ALL	UCART1	479274.1	3774305	1.78E-06	30YrCance	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
68	ALL	UCART1	479312.3	3774305	1.98E-06	30YrCance	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
69	ALL	UCART1	479350.6	3774305	2.21E-06	30YrCance	2.21E-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
70	ALL	UCART1	479388.8	3774305	2.48E-06	30YrCance	2.48E-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
71	ALL	UCART1	479427.1	3774305	2.81E-06	30YrCance	2.81E-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
72	ALL	UCART1	479465.4	3774305	3.20E-06	30YrCance	3.20E-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
73	ALL	UCART1	479503.6	3774305	3.67E-06	30YrCance	3.67E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479541.9	3774305	4.23E-06	30YrCance	4.23E-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
75	ALL	UCART1	479580.1	3774305	4.88E-06	30YrCance	4.88E-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
76	ALL	UCART1	479618.4	3774305	5.60E-06	30YrCance	5.60E-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
77	ALL	UCART1	479656.7	3774305	6.34E-06	30YrCance	6.34E-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
78	ALL	UCART1	479694.9	3774305	6.98E-06	30YrCance	6.98E-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
79	ALL	UCART1	479733.2	3774305	7.40E-06	30YrCance	7.40E-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
80	ALL	UCART1	479771.4	3774305	7.48E-06	30YrCance	7.48E-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
81	ALL	UCART1	479809.7	3774305	7.17E-06	30YrCance	7.17E-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
82	ALL	UCART1	479848	3774305	6.60E-06	30YrCance	6.60E-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
83	ALL	UCART1	479886.2	3774305	5.91E-06	30YrCance	5.91E-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
84	ALL	UCART1	479924.5	3774305	5.19E-06	30YrCance	5.19E-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
85	ALL	UCART1	479159.3	3774334	1.28E-06	30YrCance	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
86	ALL	UCART1	479197.5	3774334	1.40E-06	30YrCance	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
87	ALL	UCART1	479235.8	3774334	1.54E-06	30YrCance	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
88	ALL	UCART1	479274.1	3774334	1.69E-06	30YrCance	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
89	ALL	UCART1	479312.3	3774334	1.87E-06	30YrCance	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
90	ALL	UCART1	479350.6	3774334	2.08E-06	30YrCance	2.08E-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

91	ALL	UCART1	479388.8	3774334	2.32E-06	30YrCancer	2.32E-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
92	ALL	UCART1	479427.1	3774334	2.60E-06	30YrCancer	2.60E-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
93	ALL	UCART1	479465.4	3774334	2.93E-06	30YrCancer	2.93E-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
94	ALL	UCART1	479503.6	3774334	3.32E-06	30YrCancer	3.32E-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
95	ALL	UCART1	479541.9	3774334	3.76E-06	30YrCancer	3.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479580.1	3774334	4.26E-06	30YrCancer	4.26E-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
97	ALL	UCART1	479618.4	3774334	4.78E-06	30YrCancer	4.78E-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
98	ALL	UCART1	479656.7	3774334	5.29E-06	30YrCancer	5.29E-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
99	ALL	UCART1	479694.9	3774334	5.71E-06	30YrCancer	5.71E-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
100	ALL	UCART1	479733.2	3774334	5.98E-06	30YrCancer	5.98E-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
101	ALL	UCART1	479771.4	3774334	6.02E-06	30YrCancer	6.02E-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
102	ALL	UCART1	479809.7	3774334	5.83E-06	30YrCancer	5.83E-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
103	ALL	UCART1	479848	3774334	5.46E-06	30YrCancer	5.46E-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
104	ALL	UCART1	479886.2	3774334	4.99E-06	30YrCancer	4.99E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.5	3774334	4.47E-06	30YrCancer	4.47E-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
106	ALL	UCART1	479159.3	3774364	1.23E-06	30YrCancer	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
107	ALL	UCART1	479197.5	3774364	1.35E-06	30YrCancer	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
108	ALL	UCART1	479235.8	3774364	1.47E-06	30YrCancer	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
109	ALL	UCART1	479274.1	3774364	1.61E-06	30YrCancer	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
110	ALL	UCART1	479312.3	3774364	1.77E-06	30YrCancer	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
111	ALL	UCART1	479350.6	3774364	1.95E-06	30YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479388.8	3774364	2.17E-06	30YrCancer	2.17E-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
113	ALL	UCART1	479427.1	3774364	2.41E-06	30YrCancer	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
114	ALL	UCART1	479465.4	3774364	2.69E-06	30YrCancer	2.69E-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
115	ALL	UCART1	479503.6	3774364	3.00E-06	30YrCancer	3.00E-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
116	ALL	UCART1	479541.9	3774364	3.36E-06	30YrCancer	3.36E-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
117	ALL	UCART1	479580.1	3774364	3.73E-06	30YrCancer	3.73E-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
118	ALL	UCART1	479618.4	3774364	4.12E-06	30YrCancer	4.12E-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
119	ALL	UCART1	479656.7	3774364	4.48E-06	30YrCancer	4.48E-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
120	ALL	UCART1	479694.9	3774364	4.77E-06	30YrCancer	4.77E-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
121	ALL	UCART1	479733.2	3774364	4.95E-06	30YrCancer	4.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479771.4	3774364	4.97E-06	30YrCancer	4.97E-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
123	ALL	UCART1	479809.7	3774364	4.84E-06	30YrCancer	4.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479848	3774364	4.60E-06	30YrCancer	4.60E-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
125	ALL	UCART1	479886.2	3774364	4.26E-06	30YrCancer	4.26E-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
126	ALL	UCART1	479924.5	3774364	3.89E-06	30YrCancer	3.89E-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
127	ALL	UCART1	479159.3	3774394	1.19E-06	30YrCancer	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
128	ALL	UCART1	479197.5	3774394	1.29E-06	30YrCancer	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
129	ALL	UCART1	479235.8	3774394	1.40E-06	30YrCancer	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
130	ALL	UCART1	479274.1	3774394	1.53E-06	30YrCancer	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
131	ALL	UCART1	479312.3	3774394	1.67E-06	30YrCancer	1.67E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479350.6	3774394	1.84E-06	30YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479388.8	3774394	2.02E-06	30YrCancer	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
134	ALL	UCART1	479427.1	3774394	2.23E-06	30YrCancer	2.23E-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
135	ALL	UCART1	479465.4	3774394	2.46E-06	30YrCancer	2.46E-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
136	ALL	UCART1	479503.6	3774394	2.72E-06	30YrCancer	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
137	ALL	UCART1	479541.9	3774394	3.00E-06	30YrCancer	3.00E-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
138	ALL	UCART1	479580.1	3774394	3.30E-06	30YrCancer	3.30E-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
139	ALL	UCART1	479618.4	3774394	3.58E-06	30YrCancer	3.58E-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
140	ALL	UCART1	479656.7	3774394	3.84E-06	30YrCancer	3.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479694.9	3774394	4.05E-06	30YrCancer	4.05E-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
142	ALL	UCART1	479733.2	3774394	4.17E-06	30YrCancer	4.17E-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
143	ALL	UCART1	479771.4	3774394	4.19E-06	30YrCancer	4.19E-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
144	ALL	UCART1	479809.7	3774394	4.10E-06	30YrCancer	4.10E-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
145	ALL	UCART1	479848	3774394	3.93E-06	30YrCancer	3.93E-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
146	ALL	UCART1	479886.2	3774394	3.69E-06	30YrCancer	3.69E-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
147	ALL	UCART1	479924.5	3774394	3.41E-06	30YrCancer	3.41E-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
148	ALL	UCART1	479159.3	3774423	1.14E-06	30YrCancer	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
149	ALL	UCART1	479197.5	3774423	1.23E-06	30YrCancer	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
150	ALL	UCART1	479235.8	3774423	1.33E-06	30YrCancer	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
151	ALL	UCART1	479274.1	3774423	1.45E-06	30YrCancer	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
152	ALL	UCART1	479312.3	3774423	1.58E-06	30YrCancer	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
153	ALL	UCART1	479350.6	3774423	1.72E-06	30YrCancer	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
154	ALL	UCART1	479388.8	3774423	1.88E-06	30YrCancer	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
155	ALL	UCART1	479427.1	3774423	2.06E-06	30YrCancer	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
156	ALL	UCART1	479465.4	3774423	2.26E-06	30YrCancer	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
157	ALL	UCART1	479503.6	3774423	2.47E-06	30YrCancer	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
158	ALL	UCART1	479541.9	3774423	2.70E-06	30YrCancer	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
159	ALL	UCART1	479580.1	3774423	2.93E-06	30YrCancer	2.93E-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
160	ALL	UCART1	479618.4	3774423	3.15E-06	30YrCancer	3.15E-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
161	ALL	UCART1	479656.7	3774423	3.34E-06	30YrCancer	3.34E-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
162	ALL	UCART1	479694.9	3774423	3.49E-06	30YrCancer	3.49E-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
163	ALL	UCART1	479733.2	3774423	3.57E-06	30YrCancer	3.57E-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
164	ALL	UCART1	479771.4	3774423	3.59E-06	30YrCancer	3.59E-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
165	ALL	UCART1	479809.7	3774423	3.52E-06	30YrCancer	3.52E-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
166	ALL	UCART1	479848	3774423	3.40E-06	30YrCancer	3.40E-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
167	ALL	UCART1	479886.2	3774423	3.22E-06	30YrCancer	3.22E-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
168	ALL	UCART1	479924.5	3774423	3.01E-06	30YrCancer	3.01E-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
169	ALL	UCART1	479159.3	3774453	1.09E-06	30YrCancer	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
170	ALL	UCART1	479197.5	3774453	1.18E-06	30YrCancer	1.18E-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
171	ALL	UCART1	479235.8	3774453	1.27E-06	30YrCancer	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
172	ALL	UCART1	479274.1	3774453	1.37E-06	30YrCancer	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
173	ALL	UCART1	479312.3	3774453	1.49E-06	30YrCancer	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
174	ALL	UCART1	479350.6	3774453	1.62E-06	30YrCancer	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
175	ALL	UCART1	479388.8	3774453	1.76E-06	30YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479427.1	3774453	1.91E-06	30YrCancer	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
177	ALL	UCART1	479465.4	3774453	2.08E-06	30YrCancer	2.08E-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
178	ALL	UCART1	479503.6	3774453	2.25E-06	30YrCancer	2.25E-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
179	ALL	UCART1	479541.9	3774453	2.43E-06	30YrCancer	2.43E-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
180	ALL	UCART1	479580.1	3774453	2.61E-06	30YrCancer	2.61E-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
181	ALL	UCART1	479618.4	3774453	2.78E-06	30YrCancer	2.78E-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

182	ALL	UCART1	479656.7	3774453	2.93E-06	30YrCancer	2.93E-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
183	ALL	UCART1	479694.9	3774453	3.04E-06	30YrCancer	3.04E-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
184	ALL	UCART1	479733.2	3774453	3.10E-06	30YrCancer	3.10E-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
185	ALL	UCART1	479771.4	3774453	3.11E-06	30YrCancer	3.11E-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
186	ALL	UCART1	479809.7	3774453	3.07E-06	30YrCancer	3.07E-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
187	ALL	UCART1	479848	3774453	2.97E-06	30YrCancer	2.97E-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
188	ALL	UCART1	479886.2	3774453	2.84E-06	30YrCancer	2.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.5	3774453	2.68E-06	30YrCancer	2.68E-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
190	ALL	UCART1	479159.3	3774483	1.05E-06	30YrCancer	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
191	ALL	UCART1	479197.5	3774483	1.12E-06	30YrCancer	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
192	ALL	UCART1	479235.8	3774483	1.21E-06	30YrCancer	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
193	ALL	UCART1	479274.1	3774483	1.30E-06	30YrCancer	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
194	ALL	UCART1	479312.3	3774483	1.41E-06	30YrCancer	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
195	ALL	UCART1	479350.6	3774483	1.52E-06	30YrCancer	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
196	ALL	UCART1	479388.8	3774483	1.64E-06	30YrCancer	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
197	ALL	UCART1	479427.1	3774483	1.77E-06	30YrCancer	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
198	ALL	UCART1	479465.4	3774483	1.91E-06	30YrCancer	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
199	ALL	UCART1	479503.6	3774483	2.06E-06	30YrCancer	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
200	ALL	UCART1	479541.9	3774483	2.21E-06	30YrCancer	2.21E-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
201	ALL	UCART1	479580.1	3774483	2.35E-06	30YrCancer	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
202	ALL	UCART1	479618.4	3774483	2.48E-06	30YrCancer	2.48E-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
203	ALL	UCART1	479656.7	3774483	2.59E-06	30YrCancer	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
204	ALL	UCART1	479694.9	3774483	2.68E-06	30YrCancer	2.68E-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
205	ALL	UCART1	479733.2	3774483	2.73E-06	30YrCancer	2.73E-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
206	ALL	UCART1	479771.4	3774483	2.73E-06	30YrCancer	2.73E-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
207	ALL	UCART1	479809.7	3774483	2.70E-06	30YrCancer	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
208	ALL	UCART1	479848	3774483	2.62E-06	30YrCancer	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
209	ALL	UCART1	479886.2	3774483	2.52E-06	30YrCancer	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
210	ALL	UCART1	479924.5	3774483	2.40E-06	30YrCancer	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
211	ALL	UCART1	479159.3	3774512	1.00E-06	30YrCancer	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
212	ALL	UCART1	479197.5	3774512	1.07E-06	30YrCancer	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
213	ALL	UCART1	479235.8	3774512	1.15E-06	30YrCancer	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
214	ALL	UCART1	479274.1	3774512	1.24E-06	30YrCancer	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
215	ALL	UCART1	479312.3	3774512	1.33E-06	30YrCancer	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
216	ALL	UCART1	479350.6	3774512	1.43E-06	30YrCancer	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
217	ALL	UCART1	479388.8	3774512	1.53E-06	30YrCancer	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
218	ALL	UCART1	479427.1	3774512	1.64E-06	30YrCancer	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
219	ALL	UCART1	479465.4	3774512	1.76E-06	30YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479503.6	3774512	1.88E-06	30YrCancer	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
221	ALL	UCART1	479541.9	3774512	2.01E-06	30YrCancer	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
222	ALL	UCART1	479580.1	3774512	2.12E-06	30YrCancer	2.12E-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
223	ALL	UCART1	479618.4	3774512	2.23E-06	30YrCancer	2.23E-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
224	ALL	UCART1	479656.7	3774512	2.32E-06	30YrCancer	2.32E-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
225	ALL	UCART1	479694.9	3774512	2.38E-06	30YrCancer	2.38E-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
226	ALL	UCART1	479733.2	3774512	2.42E-06	30YrCancer	2.42E-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
227	ALL	UCART1	479771.4	3774512	2.42E-06	30YrCancer	2.42E-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
228	ALL	UCART1	479809.7	3774512	2.39E-06	30YrCancer	2.39E-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	UCART1	479848	3774512	2.34E-06	30YrCancer	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
230	ALL	UCART1	479886.2	3774512	2.26E-06	30YrCancer	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
231	ALL	UCART1	479924.5	3774512	2.16E-06	30YrCancer	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
232	ALL	UCART1	479159.3	3774542	9.61E-07	30YrCancer	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
233	ALL	UCART1	479197.5	3774542	1.03E-06	30YrCancer	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
234	ALL	UCART1	479235.8	3774542	1.10E-06	30YrCancer	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
235	ALL	UCART1	479274.1	3774542	1.17E-06	30YrCancer	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
236	ALL	UCART1	479312.3	3774542	1.25E-06	30YrCancer	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
237	ALL	UCART1	479350.6	3774542	1.34E-06	30YrCancer	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
238	ALL	UCART1	479388.8	3774542	1.43E-06	30YrCancer	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
239	ALL	UCART1	479427.1	3774542	1.53E-06	30YrCancer	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
240	ALL	UCART1	479465.4	3774542	1.63E-06	30YrCancer	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
241	ALL	UCART1	479503.6	3774542	1.73E-06	30YrCancer	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
242	ALL	UCART1	479541.9	3774542	1.83E-06	30YrCancer	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
243	ALL	UCART1	479580.1	3774542	1.93E-06	30YrCancer	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
244	ALL	UCART1	479618.4	3774542	2.01E-06	30YrCancer	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
245	ALL	UCART1	479656.7	3774542	2.08E-06	30YrCancer	2.08E-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
246	ALL	UCART1	479694.9	3774542	2.13E-06	30YrCancer	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
247	ALL	UCART1	479733.2	3774542	2.16E-06	30YrCancer	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
248	ALL	UCART1	479771.4	3774542	2.16E-06	30YrCancer	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
249	ALL	UCART1	479809.7	3774542	2.14E-06	30YrCancer	2.14E-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
250	ALL	UCART1	479848	3774542	2.10E-06	30YrCancer	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
251	ALL	UCART1	479886.2	3774542	2.03E-06	30YrCancer	2.03E-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
252	ALL	UCART1	479924.5	3774542	1.95E-06	30YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479159.3	3774572	9.21E-07	30YrCancer	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
254	ALL	UCART1	479197.5	3774572	9.79E-07	30YrCancer	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
255	ALL	UCART1	479235.8	3774572	1.04E-06	30YrCancer	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
256	ALL	UCART1	479274.1	3774572	1.11E-06	30YrCancer	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
257	ALL	UCART1	479312.3	3774572	1.18E-06	30YrCancer	1.18E-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
258	ALL	UCART1	479350.6	3774572	1.26E-06	30YrCancer	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
259	ALL	UCART1	479388.8	3774572	1.34E-06	30YrCancer	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
260	ALL	UCART1	479427.1	3774572	1.42E-06	30YrCancer	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
261	ALL	UCART1	479465.4	3774572	1.51E-06	30YrCancer	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
262	ALL	UCART1	479503.6	3774572	1.60E-06	30YrCancer	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
263	ALL	UCART1	479541.9	3774572	1.68E-06	30YrCancer	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
264	ALL	UCART1	479580.1	3774572	1.76E-06	30YrCancer	1.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479618.4	3774572	1.83E-06	30YrCancer	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
266	ALL	UCART1	479656.7	3774572	1.88E-06	30YrCancer	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
267	ALL	UCART1	479694.9	3774572	1.92E-06	30YrCancer	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
268	ALL	UCART1	479733.2	3774572	1.94E-06	30YrCancer	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
269	ALL	UCART1	479771.4	3774572	1.95E-06	30YrCancer	1.95E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479809.7	3774572	1.93E-06	30YrCancer	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
271	ALL	UCART1	479848	3774572	1.89E-06	30YrCancer	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
272	ALL	UCART1	479886.2	3774572	1.84E-06	30YrCancer	1.84E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479924.5	3774572	1.78E-06	30YrCance	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
274	ALL	UCART1	479159.3	3774601	8.81E-07	30YrCance	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
275	ALL	UCART1	479197.5	3774601	9.35E-07	30YrCance	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
276	ALL	UCART1	479235.8	3774601	9.92E-07	30YrCance	9.92E-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
277	ALL	UCART1	479274.1	3774601	1.05E-06	30YrCance	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
278	ALL	UCART1	479312.3	3774601	1.12E-06	30YrCance	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
279	ALL	UCART1	479350.6	3774601	1.19E-06	30YrCance	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
280	ALL	UCART1	479388.8	3774601	1.26E-06	30YrCance	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
281	ALL	UCART1	479427.1	3774601	1.33E-06	30YrCance	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
282	ALL	UCART1	479465.4	3774601	1.40E-06	30YrCance	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
283	ALL	UCART1	479503.6	3774601	1.47E-06	30YrCance	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
284	ALL	UCART1	479541.9	3774601	1.54E-06	30YrCance	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
285	ALL	UCART1	479580.1	3774601	1.61E-06	30YrCance	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
286	ALL	UCART1	479618.4	3774601	1.67E-06	30YrCance	1.67E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479656.7	3774601	1.71E-06	30YrCance	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
288	ALL	UCART1	479694.9	3774601	1.74E-06	30YrCance	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
289	ALL	UCART1	479733.2	3774601	1.76E-06	30YrCance	1.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479771.4	3774601	1.76E-06	30YrCance	1.76E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART1	479809.7	3774601	1.75E-06	30YrCance	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
292	ALL	UCART1	479848	3774601	1.72E-06	30YrCance	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
293	ALL	UCART1	479886.2	3774601	1.68E-06	30YrCance	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
294	ALL	UCART1	479924.5	3774601	1.63E-06	30YrCance	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
295	ALL	UCART1	479159.3	3774631	8.44E-07	30YrCance	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
296	ALL	UCART1	479197.5	3774631	8.93E-07	30YrCance	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
297	ALL	UCART1	479235.8	3774631	9.45E-07	30YrCance	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
298	ALL	UCART1	479274.1	3774631	9.99E-07	30YrCance	9.99E-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
299	ALL	UCART1	479312.3	3774631	1.06E-06	30YrCance	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	UCART1	479350.6	3774631	1.12E-06	30YrCance	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
301	ALL	UCART1	479388.8	3774631	1.18E-06	30YrCance	1.18E-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
302	ALL	UCART1	479427.1	3774631	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
303	ALL	UCART1	479465.4	3774631	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
304	ALL	UCART1	479503.6	3774631	1.37E-06	30YrCance	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
305	ALL	UCART1	479541.9	3774631	1.43E-06	30YrCance	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
306	ALL	UCART1	479580.1	3774631	1.48E-06	30YrCance	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
307	ALL	UCART1	479618.4	3774631	1.53E-06	30YrCance	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
308	ALL	UCART1	479656.7	3774631	1.56E-06	30YrCance	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
309	ALL	UCART1	479694.9	3774631	1.59E-06	30YrCance	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
310	ALL	UCART1	479733.2	3774631	1.60E-06	30YrCance	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
311	ALL	UCART1	479771.4	3774631	1.61E-06	30YrCance	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
312	ALL	UCART1	479809.7	3774631	1.59E-06	30YrCance	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
313	ALL	UCART1	479848	3774631	1.57E-06	30YrCance	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
314	ALL	UCART1	479886.2	3774631	1.54E-06	30YrCance	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
315	ALL	UCART1	479924.5	3774631	1.49E-06	30YrCance	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
316	ALL	UCART1	479159.3	3774661	8.09E-07	30YrCance	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
317	ALL	UCART1	479197.5	3774661	8.53E-07	30YrCance	8.53E-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
318	ALL	UCART1	479235.8	3774661	9.00E-07	30YrCance	9.00E-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
319	ALL	UCART1	479274.1	3774661	9.49E-07	30YrCance	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
320	ALL	UCART1	479312.3	3774661	1.00E-06	30YrCance	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
321	ALL	UCART1	479350.6	3774661	1.05E-06	30YrCance	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
322	ALL	UCART1	479388.8	3774661	1.11E-06	30YrCance	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
323	ALL	UCART1	479427.1	3774661	1.16E-06	30YrCance	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
324	ALL	UCART1	479465.4	3774661	1.22E-06	30YrCance	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
325	ALL	UCART1	479503.6	3774661	1.27E-06	30YrCance	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
326	ALL	UCART1	479541.9	3774661	1.32E-06	30YrCance	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
327	ALL	UCART1	479580.1	3774661	1.37E-06	30YrCance	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
328	ALL	UCART1	479618.4	3774661	1.40E-06	30YrCance	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
329	ALL	UCART1	479656.7	3774661	1.43E-06	30YrCance	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
330	ALL	UCART1	479694.9	3774661	1.46E-06	30YrCance	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
331	ALL	UCART1	479733.2	3774661	1.47E-06	30YrCance	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
332	ALL	UCART1	479771.4	3774661	1.47E-06	30YrCance	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
333	ALL	UCART1	479809.7	3774661	1.46E-06	30YrCance	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
334	ALL	UCART1	479848	3774661	1.44E-06	30YrCance	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
335	ALL	UCART1	479886.2	3774661	1.41E-06	30YrCance	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
336	ALL	UCART1	479924.5	3774661	1.38E-06	30YrCance	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
337	ALL	UCART1	479159.3	3774690	7.75E-07	30YrCance	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
338	ALL	UCART1	479197.5	3774690	8.15E-07	30YrCance	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
339	ALL	UCART1	479235.8	3774690	8.58E-07	30YrCance	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
340	ALL	UCART1	479274.1	3774690	9.02E-07	30YrCance	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
341	ALL	UCART1	479312.3	3774690	9.48E-07	30YrCance	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
342	ALL	UCART1	479350.6	3774690	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
343	ALL	UCART1	479388.8	3774690	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
344	ALL	UCART1	479427.1	3774690	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
345	ALL	UCART1	479465.4	3774690	1.14E-06	30YrCance	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
346	ALL	UCART1	479503.6	3774690	1.18E-06	30YrCance	1.18E-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
347	ALL	UCART1	479541.9	3774690	1.23E-06	30YrCance	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
348	ALL	UCART1	479580.1	3774690	1.26E-06	30YrCance	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
349	ALL	UCART1	479618.4	3774690	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
350	ALL	UCART1	479656.7	3774690	1.32E-06	30YrCance	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
351	ALL	UCART1	479694.9	3774690	1.34E-06	30YrCance	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
352	ALL	UCART1	479733.2	3774690	1.35E-06	30YrCance	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
353	ALL	UCART1	479771.4	3774690	1.35E-06	30YrCance	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
354	ALL	UCART1	479809.7	3774690	1.34E-06	30YrCance	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
355	ALL	UCART1	479848	3774690	1.33E-06	30YrCance	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
356	ALL	UCART1	479886.2	3774690	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
357	ALL	UCART1	479924.5	3774690	1.27E-06	30YrCance	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
358	ALL	UCART1	479159.3	3774720	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
359	ALL	UCART1	479197.5	3774720	7.80E-07	30YrCance	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
360	ALL	UCART1	479235.8	3774720	8.18E-07	30YrCance	8.18E-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
361	ALL	UCART1	479274.1	3774720	8.58E-07	30YrCance	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
362	ALL	UCART1	479312.3	3774720	8.99E-07	30YrCance	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
363	ALL	UCART1	479350.6	3774720	9.41E-07	30YrCance	9.41E-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

364	ALL	UCART1	479388.8	3774720	9.83E-07	30YrCance	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
365	ALL	UCART1	479427.1	3774720	1.03E-06	30YrCance	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
366	ALL	UCART1	479465.4	3774720	1.07E-06	30YrCance	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	UCART1	479503.6	3774720	1.11E-06	30YrCance	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
368	ALL	UCART1	479541.9	3774720	1.14E-06	30YrCance	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
369	ALL	UCART1	479580.1	3774720	1.17E-06	30YrCance	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
370	ALL	UCART1	479618.4	3774720	1.20E-06	30YrCance	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
371	ALL	UCART1	479656.7	3774720	1.22E-06	30YrCance	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
372	ALL	UCART1	479694.9	3774720	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
373	ALL	UCART1	479733.2	3774720	1.25E-06	30YrCance	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
374	ALL	UCART1	479771.4	3774720	1.25E-06	30YrCance	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
375	ALL	UCART1	479809.7	3774720	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
376	ALL	UCART1	479848	3774720	1.23E-06	30YrCance	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
377	ALL	UCART1	479886.2	3774720	1.21E-06	30YrCance	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
378	ALL	UCART1	479924.5	3774720	1.18E-06	30YrCance	1.18E-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
379	ALL	UCART1	479159.3	3774750	7.12E-07	30YrCance	7.12E-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
380	ALL	UCART1	479197.5	3774750	7.46E-07	30YrCance	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
381	ALL	UCART1	479235.8	3774750	7.81E-07	30YrCance	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
382	ALL	UCART1	479274.1	3774750	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
383	ALL	UCART1	479312.3	3774750	8.53E-07	30YrCance	8.53E-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	UCART1	479350.6	3774750	8.91E-07	30YrCance	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
385	ALL	UCART1	479388.8	3774750	9.28E-07	30YrCance	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
386	ALL	UCART1	479427.1	3774750	9.65E-07	30YrCance	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
387	ALL	UCART1	479465.4	3774750	1.00E-06	30YrCance	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
388	ALL	UCART1	479503.6	3774750	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
389	ALL	UCART1	479541.9	3774750	1.07E-06	30YrCance	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
390	ALL	UCART1	479580.1	3774750	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
391	ALL	UCART1	479618.4	3774750	1.12E-06	30YrCance	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
392	ALL	UCART1	479656.7	3774750	1.14E-06	30YrCance	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
393	ALL	UCART1	479694.9	3774750	1.15E-06	30YrCance	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
394	ALL	UCART1	479733.2	3774750	1.16E-06	30YrCance	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
395	ALL	UCART1	479771.4	3774750	1.16E-06	30YrCance	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
396	ALL	UCART1	479809.7	3774750	1.15E-06	30YrCance	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
397	ALL	UCART1	479848	3774750	1.14E-06	30YrCance	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
398	ALL	UCART1	479886.2	3774750	1.12E-06	30YrCance	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
399	ALL	UCART1	479924.5	3774750	1.10E-06	30YrCance	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	UCART1	479159.3	3774779	6.83E-07	30YrCance	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
401	ALL	UCART1	479197.5	3774779	7.14E-07	30YrCance	7.14E-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
402	ALL	UCART1	479235.8	3774779	7.45E-07	30YrCance	7.45E-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
403	ALL	UCART1	479274.1	3774779	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
404	ALL	UCART1	479312.3	3774779	8.11E-07	30YrCance	8.11E-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
405	ALL	UCART1	479350.6	3774779	8.44E-07	30YrCance	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
406	ALL	UCART1	479388.8	3774779	8.77E-07	30YrCance	8.77E-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
407	ALL	UCART1	479427.1	3774779	9.10E-07	30YrCance	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
408	ALL	UCART1	479465.4	3774779	9.41E-07	30YrCance	9.41E-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
409	ALL	UCART1	479503.6	3774779	9.71E-07	30YrCance	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
410	ALL	UCART1	479541.9	3774779	9.98E-07	30YrCance	9.98E-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
411	ALL	UCART1	479580.1	3774779	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
412	ALL	UCART1	479618.4	3774779	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
413	ALL	UCART1	479656.7	3774779	1.06E-06	30YrCance	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
414	ALL	UCART1	479694.9	3774779	1.07E-06	30YrCance	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
415	ALL	UCART1	479733.2	3774779	1.07E-06	30YrCance	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
416	ALL	UCART1	479771.4	3774779	1.07E-06	30YrCance	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
417	ALL	UCART1	479809.7	3774779	1.07E-06	30YrCance	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
418	ALL	UCART1	479848	3774779	1.06E-06	30YrCance	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
419	ALL	UCART1	479886.2	3774779	1.05E-06	30YrCance	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
420	ALL	UCART1	479924.5	3774779	1.03E-06	30YrCance	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
421	ALL	UCART1	479159.3	3774809	6.55E-07	30YrCance	6.55E-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
422	ALL	UCART1	479197.5	3774809	6.83E-07	30YrCance	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
423	ALL	UCART1	479235.8	3774809	7.12E-07	30YrCance	7.12E-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
424	ALL	UCART1	479274.1	3774809	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
425	ALL	UCART1	479312.3	3774809	7.71E-07	30YrCance	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
426	ALL	UCART1	479350.6	3774809	8.01E-07	30YrCance	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
427	ALL	UCART1	479388.8	3774809	8.31E-07	30YrCance	8.31E-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
428	ALL	UCART1	479427.1	3774809	8.60E-07	30YrCance	8.60E-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
429	ALL	UCART1	479465.4	3774809	8.87E-07	30YrCance	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
430	ALL	UCART1	479503.6	3774809	9.13E-07	30YrCance	9.13E-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
431	ALL	UCART1	479541.9	3774809	9.36E-07	30YrCance	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
432	ALL	UCART1	479580.1	3774809	9.57E-07	30YrCance	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
433	ALL	UCART1	479618.4	3774809	9.74E-07	30YrCance	9.74E-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
434	ALL	UCART1	479656.7	3774809	9.88E-07	30YrCance	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
435	ALL	UCART1	479694.9	3774809	9.97E-07	30YrCance	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
436	ALL	UCART1	479733.2	3774809	1.00E-06	30YrCance	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
437	ALL	UCART1	479771.4	3774809	1.00E-06	30YrCance	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
438	ALL	UCART1	479809.7	3774809	9.98E-07	30YrCance	9.98E-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
439	ALL	UCART1	479848	3774809	9.90E-07	30YrCance	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
440	ALL	UCART1	479886.2	3774809	9.77E-07	30YrCance	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
441	ALL	UCART1	479924.5	3774809	9.61E-07	30YrCance	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
442	ALL	UCART2	479959.7	3774402	3.05E-06	30YrCance	3.05E-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
443	ALL	UCART2	480038.8	3774402	2.51E-06	30YrCance	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
444	ALL	UCART2	480117.8	3774402	2.06E-06	30YrCance	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
445	ALL	UCART2	480196.9	3774402	1.68E-06	30YrCance	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
446	ALL	UCART2	480276	3774402	1.39E-06	30YrCance	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
447	ALL	UCART2	480355	3774402	1.20E-06	30YrCance	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
448	ALL	UCART2	480434.1	3774402	1.03E-06	30YrCance	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
449	ALL	UCART2	480513.2	3774402	9.02E-07	30YrCance	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
450	ALL	UCART2	480592.3	3774402	8.01E-07	30YrCance	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
451	ALL	UCART2	480671.3	3774402	7.14E-07	30YrCance	7.14E-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
452	ALL	UCART2	480750.4	3774402	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
453	ALL	UCART2	480829.5	3774402	5.83E-07	30YrCance	5.83E-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
454	ALL	UCART2	480908.5	3774402	5.38E-07	30YrCance	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

455	ALL	UCART2	480987.6	3774402	4.94E-07	30YrCance	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
456	ALL	UCART2	481066.7	3774402	4.53E-07	30YrCance	4.53E-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
457	ALL	UCART2	481145.7	3774402	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
458	ALL	UCART2	481224.8	3774402	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
459	ALL	UCART2	481303.9	3774402	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
460	ALL	UCART2	481383	3774402	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
461	ALL	UCART2	481462	3774402	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
462	ALL	UCART2	481541.1	3774402	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
463	ALL	UCART2	479959.7	3774421	2.83E-06	30YrCance	2.83E-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
464	ALL	UCART2	480038.8	3774421	2.36E-06	30YrCance	2.36E-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
465	ALL	UCART2	480117.8	3774421	1.89E-06	30YrCance	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
466	ALL	UCART2	480196.9	3774421	1.58E-06	30YrCance	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
467	ALL	UCART2	480276	3774421	1.34E-06	30YrCance	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
468	ALL	UCART2	480355	3774421	1.14E-06	30YrCance	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
469	ALL	UCART2	480434.1	3774421	1.00E-06	30YrCance	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
470	ALL	UCART2	480513.2	3774421	8.81E-07	30YrCance	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
471	ALL	UCART2	480592.3	3774421	7.83E-07	30YrCance	7.83E-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
472	ALL	UCART2	480671.3	3774421	7.02E-07	30YrCance	7.02E-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
473	ALL	UCART2	480750.4	3774421	6.14E-07	30YrCance	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
474	ALL	UCART2	480829.5	3774421	5.69E-07	30YrCance	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
475	ALL	UCART2	480908.5	3774421	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
476	ALL	UCART2	480987.6	3774421	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
477	ALL	UCART2	481066.7	3774421	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
478	ALL	UCART2	481145.7	3774421	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
479	ALL	UCART2	481224.8	3774421	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
480	ALL	UCART2	481303.9	3774421	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
481	ALL	UCART2	481383	3774421	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
482	ALL	UCART2	481462	3774421	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
483	ALL	UCART2	481541.1	3774421	2.92E-07	30YrCance	2.92E-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
484	ALL	UCART2	479959.7	3774441	2.63E-06	30YrCance	2.63E-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
485	ALL	UCART2	480038.8	3774441	2.23E-06	30YrCance	2.23E-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
486	ALL	UCART2	480117.8	3774441	1.78E-06	30YrCance	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
487	ALL	UCART2	480196.9	3774441	1.51E-06	30YrCance	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
488	ALL	UCART2	480276	3774441	1.29E-06	30YrCance	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
489	ALL	UCART2	480355	3774441	1.11E-06	30YrCance	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
490	ALL	UCART2	480434.1	3774441	9.56E-07	30YrCance	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
491	ALL	UCART2	480513.2	3774441	8.47E-07	30YrCance	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
492	ALL	UCART2	480592.3	3774441	7.55E-07	30YrCance	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
493	ALL	UCART2	480671.3	3774441	6.69E-07	30YrCance	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
494	ALL	UCART2	480750.4	3774441	5.94E-07	30YrCance	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
495	ALL	UCART2	480829.5	3774441	5.43E-07	30YrCance	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
496	ALL	UCART2	480908.5	3774441	4.97E-07	30YrCance	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
497	ALL	UCART2	480987.6	3774441	4.55E-07	30YrCance	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
498	ALL	UCART2	481066.7	3774441	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
499	ALL	UCART2	481145.7	3774441	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
500	ALL	UCART2	481224.8	3774441	3.62E-07	30YrCance	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
501	ALL	UCART2	481303.9	3774441	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
502	ALL	UCART2	481383	3774441	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
503	ALL	UCART2	481462	3774441	2.96E-07	30YrCance	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
504	ALL	UCART2	481541.1	3774441	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
505	ALL	UCART2	479959.7	3774460	2.46E-06	30YrCance	2.46E-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
506	ALL	UCART2	480038.8	3774460	2.10E-06	30YrCance	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
507	ALL	UCART2	480117.8	3774460	1.69E-06	30YrCance	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
508	ALL	UCART2	480196.9	3774460	1.44E-06	30YrCance	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
509	ALL	UCART2	480276	3774460	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
510	ALL	UCART2	480355	3774460	1.07E-06	30YrCance	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
511	ALL	UCART2	480434.1	3774460	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
512	ALL	UCART2	480513.2	3774460	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
513	ALL	UCART2	480592.3	3774460	7.15E-07	30YrCance	7.15E-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
514	ALL	UCART2	480671.3	3774460	6.37E-07	30YrCance	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
515	ALL	UCART2	480750.4	3774460	5.77E-07	30YrCance	5.77E-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
516	ALL	UCART2	480829.5	3774460	5.28E-07	30YrCance	5.28E-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
517	ALL	UCART2	480908.5	3774460	4.82E-07	30YrCance	4.82E-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
518	ALL	UCART2	480987.6	3774460	4.44E-07	30YrCance	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
519	ALL	UCART2	481066.7	3774460	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
520	ALL	UCART2	481145.7	3774460	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
521	ALL	UCART2	481224.8	3774460	3.50E-07	30YrCance	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
522	ALL	UCART2	481303.9	3774460	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
523	ALL	UCART2	481383	3774460	3.08E-07	30YrCance	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
524	ALL	UCART2	481462	3774460	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
525	ALL	UCART2	481541.1	3774460	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
526	ALL	UCART2	479959.7	3774479	2.30E-06	30YrCance	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
527	ALL	UCART2	480038.8	3774479	1.99E-06	30YrCance	1.99E-06	0.00E+00	0.00E+00	0.00E+00	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	UCART2	480117.8	3774479	1.61E-06	30YrCance	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
529	ALL	UCART2	480196.9	3774479	1.38E-06	30YrCance	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
530	ALL	UCART2	480276	3774479	1.20E-06	30YrCance	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
531	ALL	UCART2	480355	3774479	1.03E-06	30YrCance	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
532	ALL	UCART2	480434.1	3774479	9.00E-07	30YrCance	9.00E-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
533	ALL	UCART2	480513.2	3774479	7.94E-07	30YrCance	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
534	ALL	UCART2	480592.3	3774479	7.09E-07	30YrCance	7.09E-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
535	ALL	UCART2	480671.3	3774479	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
536	ALL	UCART2	480750.4	3774479	5.61E-07	30YrCance	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
537	ALL	UCART2	480829.5	3774479	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
538	ALL	UCART2	480908.5	3774479	4.71E-07	30YrCance	4.71E-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
539	ALL	UCART2	480987.6	3774479	4.32E-07	30YrCance	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
540	ALL	UCART2	481066.7	3774479	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
541	ALL	UCART2	481145.7	3774479	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
542	ALL	UCART2	481224.8	3774479	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
543	ALL	UCART2	481303.9	3774479	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
544	ALL	UCART2	481383	3774479	3.00E-07	30YrCance	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
545	ALL	UCART2	481462	3774479	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

546	ALL	UCART2	481541.1	3774479	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
547	ALL	UCART2	479959.7	3774498	2.15E-06	30YrCance	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
548	ALL	UCART2	480038.8	3774498	1.88E-06	30YrCance	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
549	ALL	UCART2	480117.8	3774498	1.54E-06	30YrCance	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
550	ALL	UCART2	480196.9	3774498	1.33E-06	30YrCance	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
551	ALL	UCART2	480276	3774498	1.16E-06	30YrCance	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
552	ALL	UCART2	480355	3774498	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
553	ALL	UCART2	480434.1	3774498	8.73E-07	30YrCance	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
554	ALL	UCART2	480513.2	3774498	7.73E-07	30YrCance	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
555	ALL	UCART2	480592.3	3774498	6.90E-07	30YrCance	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
556	ALL	UCART2	480671.3	3774498	5.98E-07	30YrCance	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
557	ALL	UCART2	480750.4	3774498	5.46E-07	30YrCance	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
558	ALL	UCART2	480829.5	3774498	4.98E-07	30YrCance	4.98E-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
559	ALL	UCART2	480908.5	3774498	4.55E-07	30YrCance	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
560	ALL	UCART2	480987.6	3774498	4.18E-07	30YrCance	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
561	ALL	UCART2	481066.7	3774498	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
562	ALL	UCART2	481145.7	3774498	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
563	ALL	UCART2	481224.8	3774498	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
564	ALL	UCART2	481303.9	3774498	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
565	ALL	UCART2	481383	3774498	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
566	ALL	UCART2	481462	3774498	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
567	ALL	UCART2	481541.1	3774498	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
568	ALL	UCART2	479959.7	3774518	2.02E-06	30YrCance	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
569	ALL	UCART2	480038.8	3774518	1.78E-06	30YrCance	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
570	ALL	UCART2	480117.8	3774518	1.46E-06	30YrCance	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
571	ALL	UCART2	480196.9	3774518	1.28E-06	30YrCance	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
572	ALL	UCART2	480276	3774518	1.11E-06	30YrCance	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
573	ALL	UCART2	480355	3774518	9.62E-07	30YrCance	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
574	ALL	UCART2	480434.1	3774518	8.44E-07	30YrCance	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
575	ALL	UCART2	480513.2	3774518	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
576	ALL	UCART2	480592.3	3774518	6.71E-07	30YrCance	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
577	ALL	UCART2	480671.3	3774518	5.82E-07	30YrCance	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
578	ALL	UCART2	480750.4	3774518	5.30E-07	30YrCance	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
579	ALL	UCART2	480829.5	3774518	4.83E-07	30YrCance	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
580	ALL	UCART2	480908.5	3774518	4.43E-07	30YrCance	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
581	ALL	UCART2	480987.6	3774518	4.06E-07	30YrCance	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
582	ALL	UCART2	481066.7	3774518	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
583	ALL	UCART2	481145.7	3774518	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
584	ALL	UCART2	481224.8	3774518	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
585	ALL	UCART2	481303.9	3774518	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
586	ALL	UCART2	481383	3774518	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
587	ALL	UCART2	481462	3774518	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
588	ALL	UCART2	481541.1	3774518	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
589	ALL	UCART2	479959.7	3774537	1.90E-06	30YrCance	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
590	ALL	UCART2	480038.8	3774537	1.69E-06	30YrCance	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
591	ALL	UCART2	480117.8	3774537	1.40E-06	30YrCance	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
592	ALL	UCART2	480196.9	3774537	1.22E-06	30YrCance	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
593	ALL	UCART2	480276	3774537	1.07E-06	30YrCance	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
594	ALL	UCART2	480355	3774537	9.31E-07	30YrCance	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
595	ALL	UCART2	480434.1	3774537	8.20E-07	30YrCance	8.20E-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
596	ALL	UCART2	480513.2	3774537	7.28E-07	30YrCance	7.28E-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
597	ALL	UCART2	480592.3	3774537	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
598	ALL	UCART2	480671.3	3774537	5.66E-07	30YrCance	5.66E-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
599	ALL	UCART2	480750.4	3774537	5.15E-07	30YrCance	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
600	ALL	UCART2	480829.5	3774537	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
601	ALL	UCART2	480908.5	3774537	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
602	ALL	UCART2	480987.6	3774537	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
603	ALL	UCART2	481066.7	3774537	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
604	ALL	UCART2	481145.7	3774537	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
605	ALL	UCART2	481224.8	3774537	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
606	ALL	UCART2	481303.9	3774537	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
607	ALL	UCART2	481383	3774537	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
608	ALL	UCART2	481462	3774537	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
609	ALL	UCART2	481541.1	3774537	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
610	ALL	UCART2	479959.7	3774556	1.79E-06	30YrCance	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
611	ALL	UCART2	480038.8	3774556	1.60E-06	30YrCance	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
612	ALL	UCART2	480117.8	3774556	1.35E-06	30YrCance	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
613	ALL	UCART2	480196.9	3774556	1.17E-06	30YrCance	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
614	ALL	UCART2	480276	3774556	1.03E-06	30YrCance	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
615	ALL	UCART2	480355	3774556	9.00E-07	30YrCance	9.00E-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
616	ALL	UCART2	480434.1	3774556	7.96E-07	30YrCance	7.96E-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
617	ALL	UCART2	480513.2	3774556	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
618	ALL	UCART2	480592.3	3774556	6.35E-07	30YrCance	6.35E-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
619	ALL	UCART2	480671.3	3774556	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
620	ALL	UCART2	480750.4	3774556	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
621	ALL	UCART2	480829.5	3774556	4.58E-07	30YrCance	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
622	ALL	UCART2	480908.5	3774556	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
623	ALL	UCART2	480987.6	3774556	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
624	ALL	UCART2	481066.7	3774556	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
625	ALL	UCART2	481145.7	3774556	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
626	ALL	UCART2	481224.8	3774556	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
627	ALL	UCART2	481303.9	3774556	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
628	ALL	UCART2	481383	3774556	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
629	ALL	UCART2	481462	3774556	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
630	ALL	UCART2	481541.1	3774556	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
631	ALL	UCART2	479959.7	3774576	1.69E-06	30YrCance	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
632	ALL	UCART2	480038.8	3774576	1.52E-06	30YrCance	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
633	ALL	UCART2	480117.8	3774576	1.29E-06	30YrCance	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
634	ALL	UCART2	480196.9	3774576	1.13E-06	30YrCance	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
635	ALL	UCART2	480276	3774576	9.93E-07	30YrCance	9.93E-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
636	ALL	UCART2	480355	3774576	8.71E-07	30YrCance	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

637	ALL	UCART2	480434.1	3774576	7.75E-07	30YrCance	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
638	ALL	UCART2	480513.2	3774576	6.89E-07	30YrCance	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
639	ALL	UCART2	480592.3	3774576	6.19E-07	30YrCance	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
640	ALL	UCART2	480671.3	3774576	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
641	ALL	UCART2	480750.4	3774576	4.88E-07	30YrCance	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
642	ALL	UCART2	480829.5	3774576	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
643	ALL	UCART2	480908.5	3774576	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
644	ALL	UCART2	480987.6	3774576	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
645	ALL	UCART2	481066.7	3774576	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
646	ALL	UCART2	481145.7	3774576	3.22E-07	30YrCance	3.22E-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
647	ALL	UCART2	481224.8	3774576	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
648	ALL	UCART2	481303.9	3774576	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
649	ALL	UCART2	481383	3774576	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
650	ALL	UCART2	481462	3774576	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
651	ALL	UCART2	481541.1	3774576	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
652	ALL	UCART2	479959.7	3774595	1.60E-06	30YrCance	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
653	ALL	UCART2	480038.8	3774595	1.45E-06	30YrCance	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
654	ALL	UCART2	480117.8	3774595	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
655	ALL	UCART2	480196.9	3774595	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
656	ALL	UCART2	480276	3774595	9.57E-07	30YrCance	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
657	ALL	UCART2	480355	3774595	8.43E-07	30YrCance	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
658	ALL	UCART2	480434.1	3774595	7.52E-07	30YrCance	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
659	ALL	UCART2	480513.2	3774595	6.71E-07	30YrCance	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
660	ALL	UCART2	480592.3	3774595	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
661	ALL	UCART2	480671.3	3774595	5.22E-07	30YrCance	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
662	ALL	UCART2	480750.4	3774595	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
663	ALL	UCART2	480829.5	3774595	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
664	ALL	UCART2	480908.5	3774595	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
665	ALL	UCART2	480987.6	3774595	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
666	ALL	UCART2	481066.7	3774595	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
667	ALL	UCART2	481145.7	3774595	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
668	ALL	UCART2	481224.8	3774595	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
669	ALL	UCART2	481303.9	3774595	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
670	ALL	UCART2	481383	3774595	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
671	ALL	UCART2	481462	3774595	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
672	ALL	UCART2	481541.1	3774595	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
673	ALL	UCART2	479959.7	3774614	1.51E-06	30YrCance	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
674	ALL	UCART2	480038.8	3774614	1.38E-06	30YrCance	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
675	ALL	UCART2	480117.8	3774614	1.19E-06	30YrCance	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
676	ALL	UCART2	480196.9	3774614	1.05E-06	30YrCance	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
677	ALL	UCART2	480276	3774614	9.24E-07	30YrCance	9.24E-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
678	ALL	UCART2	480355	3774614	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
679	ALL	UCART2	480434.1	3774614	7.31E-07	30YrCance	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
680	ALL	UCART2	480513.2	3774614	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
681	ALL	UCART2	480592.3	3774614	5.89E-07	30YrCance	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
682	ALL	UCART2	480671.3	3774614	5.10E-07	30YrCance	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
683	ALL	UCART2	480750.4	3774614	4.64E-07	30YrCance	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
684	ALL	UCART2	480829.5	3774614	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
685	ALL	UCART2	480908.5	3774614	3.89E-07	30YrCance	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
686	ALL	UCART2	480987.6	3774614	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
687	ALL	UCART2	481066.7	3774614	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
688	ALL	UCART2	481145.7	3774614	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
689	ALL	UCART2	481224.8	3774614	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
690	ALL	UCART2	481303.9	3774614	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
691	ALL	UCART2	481383	3774614	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
692	ALL	UCART2	481462	3774614	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
693	ALL	UCART2	481541.1	3774614	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
694	ALL	UCART2	479959.7	3774634	1.44E-06	30YrCance	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
695	ALL	UCART2	480038.8	3774634	1.32E-06	30YrCance	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
696	ALL	UCART2	480117.8	3774634	1.15E-06	30YrCance	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
697	ALL	UCART2	480196.9	3774634	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
698	ALL	UCART2	480276	3774634	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
699	ALL	UCART2	480355	3774634	7.92E-07	30YrCance	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
700	ALL	UCART2	480434.1	3774634	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
701	ALL	UCART2	480513.2	3774634	6.36E-07	30YrCance	6.36E-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
702	ALL	UCART2	480592.3	3774634	5.74E-07	30YrCance	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
703	ALL	UCART2	480671.3	3774634	4.98E-07	30YrCance	4.98E-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
704	ALL	UCART2	480750.4	3774634	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
705	ALL	UCART2	480829.5	3774634	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
706	ALL	UCART2	480908.5	3774634	3.80E-07	30YrCance	3.80E-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
707	ALL	UCART2	480987.6	3774634	3.50E-07	30YrCance	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
708	ALL	UCART2	481066.7	3774634	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
709	ALL	UCART2	481145.7	3774634	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
710	ALL	UCART2	481224.8	3774634	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
711	ALL	UCART2	481303.9	3774634	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
712	ALL	UCART2	481383	3774634	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
713	ALL	UCART2	481462	3774634	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
714	ALL	UCART2	481541.1	3774634	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
715	ALL	UCART2	479959.7	3774653	1.36E-06	30YrCance	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
716	ALL	UCART2	480038.8	3774653	1.26E-06	30YrCance	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
717	ALL	UCART2	480117.8	3774653	1.11E-06	30YrCance	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
718	ALL	UCART2	480196.9	3774653	9.76E-07	30YrCance	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
719	ALL	UCART2	480276	3774653	8.66E-07	30YrCance	8.66E-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
720	ALL	UCART2	480355	3774653	7.68E-07	30YrCance	7.68E-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
721	ALL	UCART2	480434.1	3774653	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
722	ALL	UCART2	480513.2	3774653	6.19E-07	30YrCance	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
723	ALL	UCART2	480592.3	3774653	5.60E-07	30YrCance	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
724	ALL	UCART2	480671.3	3774653	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
725	ALL	UCART2	480750.4	3774653	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
726	ALL	UCART2	480829.5	3774653	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
727	ALL	UCART2	480908.5	3774653	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

728	ALL	UCART2	480987.6	3774653	3.43E-07	30YrCance	3.43E-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
729	ALL	UCART2	481066.7	3774653	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
730	ALL	UCART2	481145.7	3774653	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
731	ALL	UCART2	481224.8	3774653	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
732	ALL	UCART2	481303.9	3774653	2.53E-07	30YrCance	2.53E-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
733	ALL	UCART2	481383	3774653	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
734	ALL	UCART2	481462	3774653	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
735	ALL	UCART2	481541.1	3774653	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
736	ALL	UCART2	479959.7	3774672	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
737	ALL	UCART2	480038.8	3774672	1.20E-06	30YrCance	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
738	ALL	UCART2	480117.8	3774672	1.07E-06	30YrCance	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
739	ALL	UCART2	480196.9	3774672	9.44E-07	30YrCance	9.44E-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
740	ALL	UCART2	480276	3774672	8.42E-07	30YrCance	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
741	ALL	UCART2	480355	3774672	7.45E-07	30YrCance	7.45E-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
742	ALL	UCART2	480434.1	3774672	6.71E-07	30YrCance	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
743	ALL	UCART2	480513.2	3774672	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
744	ALL	UCART2	480592.3	3774672	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
745	ALL	UCART2	480671.3	3774672	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
746	ALL	UCART2	480750.4	3774672	4.30E-07	30YrCance	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
747	ALL	UCART2	480829.5	3774672	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
748	ALL	UCART2	480908.5	3774672	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
749	ALL	UCART2	480987.6	3774672	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
750	ALL	UCART2	481066.7	3774672	3.08E-07	30YrCance	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
751	ALL	UCART2	481145.7	3774672	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
752	ALL	UCART2	481224.8	3774672	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
753	ALL	UCART2	481303.9	3774672	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
754	ALL	UCART2	481383	3774672	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
755	ALL	UCART2	481462	3774672	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
756	ALL	UCART2	481541.1	3774672	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
757	ALL	UCART2	479959.7	3774692	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
758	ALL	UCART2	480038.8	3774692	1.15E-06	30YrCance	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
759	ALL	UCART2	480117.8	3774692	1.03E-06	30YrCance	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
760	ALL	UCART2	480196.9	3774692	9.09E-07	30YrCance	9.09E-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
761	ALL	UCART2	480276	3774692	8.13E-07	30YrCance	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
762	ALL	UCART2	480355	3774692	7.23E-07	30YrCance	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
763	ALL	UCART2	480434.1	3774692	6.51E-07	30YrCance	6.51E-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
764	ALL	UCART2	480513.2	3774692	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
765	ALL	UCART2	480592.3	3774692	5.28E-07	30YrCance	5.28E-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
766	ALL	UCART2	480671.3	3774692	4.65E-07	30YrCance	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
767	ALL	UCART2	480750.4	3774692	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
768	ALL	UCART2	480829.5	3774692	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
769	ALL	UCART2	480908.5	3774692	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
770	ALL	UCART2	480987.6	3774692	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
771	ALL	UCART2	481066.7	3774692	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
772	ALL	UCART2	481145.7	3774692	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
773	ALL	UCART2	481224.8	3774692	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
774	ALL	UCART2	481303.9	3774692	2.42E-07	30YrCance	2.42E-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
775	ALL	UCART2	481383	3774692	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
776	ALL	UCART2	481462	3774692	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
777	ALL	UCART2	481541.1	3774692	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
778	ALL	UCART2	479959.7	3774711	1.18E-06	30YrCance	1.18E-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
779	ALL	UCART2	480038.8	3774711	1.08E-06	30YrCance	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
780	ALL	UCART2	480117.8	3774711	9.65E-07	30YrCance	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
781	ALL	UCART2	480196.9	3774711	8.72E-07	30YrCance	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
782	ALL	UCART2	480276	3774711	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
783	ALL	UCART2	480355	3774711	7.01E-07	30YrCance	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
784	ALL	UCART2	480434.1	3774711	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
785	ALL	UCART2	480513.2	3774711	5.70E-07	30YrCance	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
786	ALL	UCART2	480592.3	3774711	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
787	ALL	UCART2	480671.3	3774711	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
788	ALL	UCART2	480750.4	3774711	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
789	ALL	UCART2	480829.5	3774711	3.80E-07	30YrCance	3.80E-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
790	ALL	UCART2	480908.5	3774711	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
791	ALL	UCART2	480987.6	3774711	3.18E-07	30YrCance	3.18E-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
792	ALL	UCART2	481066.7	3774711	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
793	ALL	UCART2	481145.7	3774711	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
794	ALL	UCART2	481224.8	3774711	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
795	ALL	UCART2	481303.9	3774711	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
796	ALL	UCART2	481383	3774711	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
797	ALL	UCART2	481462	3774711	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
798	ALL	UCART2	481541.1	3774711	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
799	ALL	UCART2	479959.7	3774730	1.12E-06	30YrCance	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
800	ALL	UCART2	480038.8	3774730	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
801	ALL	UCART2	480117.8	3774730	9.26E-07	30YrCance	9.26E-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
802	ALL	UCART2	480196.9	3774730	8.37E-07	30YrCance	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
803	ALL	UCART2	480276	3774730	7.56E-07	30YrCance	7.56E-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
804	ALL	UCART2	480355	3774730	6.82E-07	30YrCance	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
805	ALL	UCART2	480434.1	3774730	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
806	ALL	UCART2	480513.2	3774730	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
807	ALL	UCART2	480592.3	3774730	4.98E-07	30YrCance	4.98E-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
808	ALL	UCART2	480671.3	3774730	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
809	ALL	UCART2	480750.4	3774730	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
810	ALL	UCART2	480829.5	3774730	3.70E-07	30YrCance	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
811	ALL	UCART2	480908.5	3774730	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
812	ALL	UCART2	480987.6	3774730	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
813	ALL	UCART2	481066.7	3774730	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
814	ALL	UCART2	481145.7	3774730	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
815	ALL	UCART2	481224.8	3774730	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
816	ALL	UCART2	481303.9	3774730	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
817	ALL	UCART2	481383	3774730	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
818	ALL	UCART2	481462	3774730	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

819	ALL	UCART2	481541.1	3774730	1.93E-07	30YrCancer	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
820	ALL	UCART2	479959.7	3774749	1.08E-06	30YrCancer	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
821	ALL	UCART2	480038.8	3774749	9.66E-07	30YrCancer	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
822	ALL	UCART2	480117.8	3774749	8.81E-07	30YrCancer	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
823	ALL	UCART2	480196.9	3774749	8.03E-07	30YrCancer	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
824	ALL	UCART2	480276	3774749	7.31E-07	30YrCancer	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
825	ALL	UCART2	480355	3774749	6.63E-07	30YrCancer	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
826	ALL	UCART2	480434.1	3774749	6.01E-07	30YrCancer	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
827	ALL	UCART2	480513.2	3774749	5.38E-07	30YrCancer	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
828	ALL	UCART2	480592.3	3774749	4.84E-07	30YrCancer	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
829	ALL	UCART2	480671.3	3774749	4.35E-07	30YrCancer	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
830	ALL	UCART2	480750.4	3774749	3.92E-07	30YrCancer	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
831	ALL	UCART2	480829.5	3774749	3.61E-07	30YrCancer	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
832	ALL	UCART2	480908.5	3774749	3.31E-07	30YrCancer	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
833	ALL	UCART2	480987.6	3774749	3.03E-07	30YrCancer	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
834	ALL	UCART2	481066.7	3774749	2.81E-07	30YrCancer	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
835	ALL	UCART2	481145.7	3774749	2.61E-07	30YrCancer	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
836	ALL	UCART2	481224.8	3774749	2.42E-07	30YrCancer	2.42E-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
837	ALL	UCART2	481303.9	3774749	2.26E-07	30YrCancer	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
838	ALL	UCART2	481383	3774749	2.13E-07	30YrCancer	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
839	ALL	UCART2	481462	3774749	2.01E-07	30YrCancer	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
840	ALL	UCART2	481541.1	3774749	1.89E-07	30YrCancer	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
841	ALL	UCART2	479959.7	3774769	1.03E-06	30YrCancer	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
842	ALL	UCART2	480038.8	3774769	9.25E-07	30YrCancer	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
843	ALL	UCART2	480117.8	3774769	8.49E-07	30YrCancer	8.49E-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
844	ALL	UCART2	480196.9	3774769	7.79E-07	30YrCancer	7.79E-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
845	ALL	UCART2	480276	3774769	7.11E-07	30YrCancer	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
846	ALL	UCART2	480355	3774769	6.46E-07	30YrCancer	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
847	ALL	UCART2	480434.1	3774769	5.85E-07	30YrCancer	5.85E-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
848	ALL	UCART2	480513.2	3774769	5.25E-07	30YrCancer	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
849	ALL	UCART2	480592.3	3774769	4.74E-07	30YrCancer	4.74E-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
850	ALL	UCART2	480671.3	3774769	4.20E-07	30YrCancer	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
851	ALL	UCART2	480750.4	3774769	3.83E-07	30YrCancer	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
852	ALL	UCART2	480829.5	3774769	3.51E-07	30YrCancer	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
853	ALL	UCART2	480908.5	3774769	3.24E-07	30YrCancer	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
854	ALL	UCART2	480987.6	3774769	2.96E-07	30YrCancer	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
855	ALL	UCART2	481066.7	3774769	2.74E-07	30YrCancer	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
856	ALL	UCART2	481145.7	3774769	2.56E-07	30YrCancer	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
857	ALL	UCART2	481224.8	3774769	2.37E-07	30YrCancer	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
858	ALL	UCART2	481303.9	3774769	2.22E-07	30YrCancer	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
859	ALL	UCART2	481383	3774769	2.09E-07	30YrCancer	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
860	ALL	UCART2	481462	3774769	1.97E-07	30YrCancer	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
861	ALL	UCART2	481541.1	3774769	1.85E-07	30YrCancer	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
862	ALL	UCART2	479959.7	3774788	9.86E-07	30YrCancer	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
863	ALL	UCART2	480038.8	3774788	8.88E-07	30YrCancer	8.88E-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
864	ALL	UCART2	480117.8	3774788	8.21E-07	30YrCancer	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
865	ALL	UCART2	480196.9	3774788	7.54E-07	30YrCancer	7.54E-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
866	ALL	UCART2	480276	3774788	6.89E-07	30YrCancer	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
867	ALL	UCART2	480355	3774788	6.27E-07	30YrCancer	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
868	ALL	UCART2	480434.1	3774788	5.70E-07	30YrCancer	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
869	ALL	UCART2	480513.2	3774788	5.13E-07	30YrCancer	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
870	ALL	UCART2	480592.3	3774788	4.62E-07	30YrCancer	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
871	ALL	UCART2	480671.3	3774788	4.09E-07	30YrCancer	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
872	ALL	UCART2	480750.4	3774788	3.75E-07	30YrCancer	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
873	ALL	UCART2	480829.5	3774788	3.44E-07	30YrCancer	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
874	ALL	UCART2	480908.5	3774788	3.17E-07	30YrCancer	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
875	ALL	UCART2	480987.6	3774788	2.91E-07	30YrCancer	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
876	ALL	UCART2	481066.7	3774788	2.67E-07	30YrCancer	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
877	ALL	UCART2	481145.7	3774788	2.50E-07	30YrCancer	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
878	ALL	UCART2	481224.8	3774788	2.33E-07	30YrCancer	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
879	ALL	UCART2	481303.9	3774788	2.18E-07	30YrCancer	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
880	ALL	UCART2	481383	3774788	2.06E-07	30YrCancer	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
881	ALL	UCART2	481462	3774788	1.93E-07	30YrCancer	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
882	ALL	UCART2	481541.1	3774788	1.80E-07	30YrCancer	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
883	ALL		479864.1	3774073	3.36E-05	30YrCancer	3.36E-05	0.00E+00	0.00E+00	0.00E+00	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		479887.9	3774070	2.38E-05	30YrCancer	2.38E-05	0.00E+00	0.00E+00	0.00E+00	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		479901.1	3774139	1.61E-05	30YrCancer	1.61E-05	0.00E+00	0.00E+00	0.00E+00	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		479776.3	3774150	5.93E-05	30YrCancer	5.93E-05	0.00E+00	0.00E+00	0.00E+00	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		479737.3	3774106	2.77E-04	30YrCancer	2.77E-04	0.00E+00	0.00E+00	0.00E+00	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		479857.1	3774102	3.58E-05	30YrCancer	3.58E-05	0.00E+00	0.00E+00	0.00E+00	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		479856.5	3774054	3.58E-05	30YrCancer	3.58E-05	0.00E+00	0.00E+00	0.00E+00	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		479923.4	3774051	1.51E-05	30YrCancer	1.51E-05	0.00E+00	0.00E+00	0.00E+00	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		479923.4	3774009	1.28E-05	30YrCancer	1.28E-05	0.00E+00	0.00E+00	0.00E+00	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		479737.8	3774014	5.69E-05	30YrCancer	5.69E-05	0.00E+00	0.00E+00	0.00E+00	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/DEV	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	479159.3	3774216	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
2	ALL	UCART1	479197.5	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-04
3	ALL	UCART1	479235.8	3774216	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
4	ALL	UCART1	479274.1	3774216	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
5	ALL	UCART1	479312.3	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-04
6	ALL	UCART1	479350.6	3774216	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
7	ALL	UCART1	479388.8	3774216	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
8	ALL	UCART1	479427.1	3774216	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
9	ALL	UCART1	479465.4	3774216	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
10	ALL	UCART1	479503.6	3774216	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
11	ALL	UCART1	479541.9	3774216	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
12	ALL	UCART1	479580.1	3774216	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
13	ALL	UCART1	479618.4	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
14	ALL	UCART1	479656.7	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03
15	ALL	UCART1	479694.9	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-03
16	ALL	UCART1	479733.2	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-03
17	ALL	UCART1	479771.4	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-03
18	ALL	UCART1	479809.7	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-03
19	ALL	UCART1	479848	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.57E-03
20	ALL	UCART1	479886.2	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-03
21	ALL	UCART1	479924.5	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-03
22	ALL	UCART1	479159.3	3774245	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
23	ALL	UCART1	479197.5	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
24	ALL	UCART1	479235.8	3774245	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
25	ALL	UCART1	479274.1	3774245	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
26	ALL	UCART1	479312.3	3774245	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
27	ALL	UCART1	479350.6	3774245	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
28	ALL	UCART1	479388.8	3774245	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
29	ALL	UCART1	479427.1	3774245	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
30	ALL	UCART1	479465.4	3774245	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
31	ALL	UCART1	479503.6	3774245	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
32	ALL	UCART1	479541.9	3774245	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
33	ALL	UCART1	479580.1	3774245	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
34	ALL	UCART1	479618.4	3774245	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
35	ALL	UCART1	479656.7	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-03
36	ALL	UCART1	479694.9	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-03
37	ALL	UCART1	479733.2	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-03
38	ALL	UCART1	479771.4	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-03
39	ALL	UCART1	479809.7	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-03
40	ALL	UCART1	479848	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-03
41	ALL	UCART1	479886.2	3774245	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
42	ALL	UCART1	479924.5	3774245	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
43	ALL	UCART1	479159.3	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-04
44	ALL	UCART1	479197.5	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
45	ALL	UCART1	479235.8	3774275	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
46	ALL	UCART1	479274.1	3774275	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
47	ALL	UCART1	479312.3	3774275	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
48	ALL	UCART1	479350.6	3774275	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
49	ALL	UCART1	479388.8	3774275	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
50	ALL	UCART1	479427.1	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-04
51	ALL	UCART1	479465.4	3774275	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
52	ALL	UCART1	479503.6	3774275	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
53	ALL	UCART1	479541.9	3774275	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
54	ALL	UCART1	479580.1	3774275	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
55	ALL	UCART1	479618.4	3774275	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
56	ALL	UCART1	479656.7	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03
57	ALL	UCART1	479694.9	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
58	ALL	UCART1	479733.2	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-03
59	ALL	UCART1	479771.4	3774275	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
60	ALL	UCART1	479809.7	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03
61	ALL	UCART1	479848	3774275	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
62	ALL	UCART1	479886.2	3774275	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
63	ALL	UCART1	479924.5	3774275	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
64	ALL	UCART1	479159.3	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
65	ALL	UCART1	479197.5	3774305	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
66	ALL	UCART1	479235.8	3774305	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
67	ALL	UCART1	479274.1	3774305	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
68	ALL	UCART1	479312.3	3774305	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
69	ALL	UCART1	479350.6	3774305	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
70	ALL	UCART1	479388.8	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
71	ALL	UCART1	479427.1	3774305	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
72	ALL	UCART1	479465.4	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-04
73	ALL	UCART1	479503.6	3774305	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
74	ALL	UCART1	479541.9	3774305	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
75	ALL	UCART1	479580.1	3774305	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
76	ALL	UCART1	479618.4	3774305	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
77	ALL	UCART1	479656.7	3774305	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
78	ALL	UCART1	479694.9	3774305	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
79	ALL	UCART1	479733.2	3774305	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
80	ALL	UCART1	479771.4	3774305	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
81	ALL	UCART1	479809.7	3774305	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
82	ALL	UCART1	479848	3774305	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
83	ALL	UCART1	479886.2	3774305	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
84	ALL	UCART1	479924.5	3774305	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
85	ALL	UCART1	479159.3	3774334	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
86	ALL	UCART1	479197.5	3774334	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
87	ALL	UCART1	479235.8	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
88	ALL	UCART1	479274.1	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
89	ALL	UCART1	479312.3	3774334	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
90	ALL	UCART1	479350.6	3774334	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
91	ALL	UCART1	479388.8	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-04
92	ALL	UCART1	479427.1	3774334	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
93	ALL	UCART1	479465.4	3774334	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
94	ALL	UCART1	479503.6	3774334	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
95	ALL	UCART1	479541.9	3774334	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
96	ALL	UCART1	479580.1	3774334	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
97	ALL	UCART1	479618.4	3774334	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
98	ALL	UCART1	479656.7	3774334	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

99	ALL	UCART1	479694.9	3774334	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
100	ALL	UCART1	479733.2	3774334	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
101	ALL	UCART1	479771.4	3774334	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
102	ALL	UCART1	479809.7	3774334	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
103	ALL	UCART1	479848	3774334	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
104	ALL	UCART1	479886.2	3774334	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
105	ALL	UCART1	479924.5	3774334	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
106	ALL	UCART1	479159.3	3774364	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
107	ALL	UCART1	479197.5	3774364	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
108	ALL	UCART1	479235.8	3774364	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
109	ALL	UCART1	479274.1	3774364	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
110	ALL	UCART1	479312.3	3774364	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
111	ALL	UCART1	479350.6	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04
112	ALL	UCART1	479388.8	3774364	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
113	ALL	UCART1	479427.1	3774364	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
114	ALL	UCART1	479465.4	3774364	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
115	ALL	UCART1	479503.6	3774364	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
116	ALL	UCART1	479541.9	3774364	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
117	ALL	UCART1	479580.1	3774364	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
118	ALL	UCART1	479618.4	3774364	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
119	ALL	UCART1	479656.7	3774364	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
120	ALL	UCART1	479694.9	3774364	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
121	ALL	UCART1	479733.2	3774364	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
122	ALL	UCART1	479771.4	3774364	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
123	ALL	UCART1	479809.7	3774364	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
124	ALL	UCART1	479848	3774364	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
125	ALL	UCART1	479886.2	3774364	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
126	ALL	UCART1	479924.5	3774364	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
127	ALL	UCART1	479159.3	3774394	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
128	ALL	UCART1	479197.5	3774394	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
129	ALL	UCART1	479235.8	3774394	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
130	ALL	UCART1	479274.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
131	ALL	UCART1	479312.3	3774394	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
132	ALL	UCART1	479350.6	3774394	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
133	ALL	UCART1	479388.8	3774394	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
134	ALL	UCART1	479427.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04
135	ALL	UCART1	479465.4	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-04
136	ALL	UCART1	479503.6	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-04
137	ALL	UCART1	479541.9	3774394	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
138	ALL	UCART1	479580.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-04
139	ALL	UCART1	479618.4	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
140	ALL	UCART1	479656.7	3774394	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
141	ALL	UCART1	479694.9	3774394	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
142	ALL	UCART1	479733.2	3774394	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
143	ALL	UCART1	479771.4	3774394	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
144	ALL	UCART1	479809.7	3774394	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
145	ALL	UCART1	479848	3774394	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
146	ALL	UCART1	479886.2	3774394	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
147	ALL	UCART1	479924.5	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-04
148	ALL	UCART1	479159.3	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
149	ALL	UCART1	479197.5	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-04
150	ALL	UCART1	479235.8	3774423	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
151	ALL	UCART1	479274.1	3774423	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
152	ALL	UCART1	479312.3	3774423	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
153	ALL	UCART1	479350.6	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-04
154	ALL	UCART1	479388.8	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
155	ALL	UCART1	479427.1	3774423	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
156	ALL	UCART1	479465.4	3774423	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
157	ALL	UCART1	479503.6	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-04
158	ALL	UCART1	479541.9	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-04
159	ALL	UCART1	479580.1	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-04
160	ALL	UCART1	479618.4	3774423	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
161	ALL	UCART1	479656.7	3774423	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
162	ALL	UCART1	479694.9	3774423	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
163	ALL	UCART1	479733.2	3774423	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
164	ALL	UCART1	479771.4	3774423	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
165	ALL	UCART1	479809.7	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.29E-04
166	ALL	UCART1	479848	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04
167	ALL	UCART1	479886.2	3774423	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
168	ALL	UCART1	479924.5	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-04
169	ALL	UCART1	479159.3	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
170	ALL	UCART1	479197.5	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
171	ALL	UCART1	479235.8	3774453	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
172	ALL	UCART1	479274.1	3774453	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
173	ALL	UCART1	479312.3	3774453	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
174	ALL	UCART1	479350.6	3774453	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
175	ALL	UCART1	479388.8	3774453	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
176	ALL	UCART1	479427.1	3774453	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
177	ALL	UCART1	479465.4	3774453	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
178	ALL	UCART1	479503.6	3774453	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
179	ALL	UCART1	479541.9	3774453	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
180	ALL	UCART1	479580.1	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-04
181	ALL	UCART1	479618.4	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-04
182	ALL	UCART1	479656.7	3774453	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
183	ALL	UCART1	479694.9	3774453	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
184	ALL	UCART1	479733.2	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.17E-04
185	ALL	UCART1	479771.4	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04
186	ALL	UCART1	479809.7	3774453	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
187	ALL	UCART1	479848	3774453	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
188	ALL	UCART1	479886.2	3774453	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
189	ALL	UCART1	479924.5	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-04
190	ALL	UCART1	479159.3	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
191	ALL	UCART1	479197.5	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
192	ALL	UCART1	479235.8	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
193	ALL	UCART1	479274.1	3774483	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
194	ALL	UCART1	479312.3	3774483	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
195	ALL	UCART1	479350.6	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
196	ALL	UCART1	479388.8	3774483	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
197	ALL	UCART1	479427.1	3774483	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

198	ALL	UCART1	479465.4	3774483	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
199	ALL	UCART1	479503.6	3774483	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
200	ALL	UCART1	479541.9	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-04
201	ALL	UCART1	479580.1	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
202	ALL	UCART1	479618.4	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.54E-04
203	ALL	UCART1	479656.7	3774483	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
204	ALL	UCART1	479694.9	3774483	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
205	ALL	UCART1	479733.2	3774483	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
206	ALL	UCART1	479771.4	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-04
207	ALL	UCART1	479809.7	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E-04
208	ALL	UCART1	479848	3774483	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
209	ALL	UCART1	479886.2	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-04
210	ALL	UCART1	479924.5	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.31E-04
211	ALL	UCART1	479159.3	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
212	ALL	UCART1	479197.5	3774512	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
213	ALL	UCART1	479235.8	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
214	ALL	UCART1	479274.1	3774512	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
215	ALL	UCART1	479312.3	3774512	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
216	ALL	UCART1	479350.6	3774512	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
217	ALL	UCART1	479388.8	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
218	ALL	UCART1	479427.1	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
219	ALL	UCART1	479465.4	3774512	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
220	ALL	UCART1	479503.6	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
221	ALL	UCART1	479541.9	3774512	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
222	ALL	UCART1	479580.1	3774512	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
223	ALL	UCART1	479618.4	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04
224	ALL	UCART1	479656.7	3774512	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
225	ALL	UCART1	479694.9	3774512	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
226	ALL	UCART1	479733.2	3774512	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
227	ALL	UCART1	479771.4	3774512	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
228	ALL	UCART1	479809.7	3774512	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
229	ALL	UCART1	479848	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-04
230	ALL	UCART1	479886.2	3774512	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
231	ALL	UCART1	479924.5	3774512	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
232	ALL	UCART1	479159.3	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
233	ALL	UCART1	479197.5	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
234	ALL	UCART1	479235.8	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
235	ALL	UCART1	479274.1	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
236	ALL	UCART1	479312.3	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
237	ALL	UCART1	479350.6	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
238	ALL	UCART1	479388.8	3774542	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
239	ALL	UCART1	479427.1	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-04
240	ALL	UCART1	479465.4	3774542	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
241	ALL	UCART1	479503.6	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
242	ALL	UCART1	479541.9	3774542	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
243	ALL	UCART1	479580.1	3774542	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
244	ALL	UCART1	479618.4	3774542	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
245	ALL	UCART1	479656.7	3774542	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
246	ALL	UCART1	479694.9	3774542	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
247	ALL	UCART1	479733.2	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04
248	ALL	UCART1	479771.4	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-04
249	ALL	UCART1	479809.7	3774542	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
250	ALL	UCART1	479848	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-04
251	ALL	UCART1	479886.2	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-04
252	ALL	UCART1	479924.5	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.15E-04
253	ALL	UCART1	479159.3	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
254	ALL	UCART1	479197.5	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
255	ALL	UCART1	479235.8	3774572	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
256	ALL	UCART1	479274.1	3774572	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
257	ALL	UCART1	479312.3	3774572	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
258	ALL	UCART1	479350.6	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
259	ALL	UCART1	479388.8	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
260	ALL	UCART1	479427.1	3774572	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
261	ALL	UCART1	479465.4	3774572	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
262	ALL	UCART1	479503.6	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
263	ALL	UCART1	479541.9	3774572	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
264	ALL	UCART1	479580.1	3774572	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
265	ALL	UCART1	479618.4	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
266	ALL	UCART1	479656.7	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
267	ALL	UCART1	479694.9	3774572	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
268	ALL	UCART1	479733.2	3774572	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
269	ALL	UCART1	479771.4	3774572	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
270	ALL	UCART1	479809.7	3774572	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
271	ALL	UCART1	479848	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-04
272	ALL	UCART1	479886.2	3774572	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
273	ALL	UCART1	479924.5	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-04
274	ALL	UCART1	479159.3	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
275	ALL	UCART1	479197.5	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
276	ALL	UCART1	479235.8	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
277	ALL	UCART1	479274.1	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
278	ALL	UCART1	479312.3	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
279	ALL	UCART1	479350.6	3774601	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
280	ALL	UCART1	479388.8	3774601	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
281	ALL	UCART1	479427.1	3774601	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
282	ALL	UCART1	479465.4	3774601	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
283	ALL	UCART1	479503.6	3774601	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
284	ALL	UCART1	479541.9	3774601	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
285	ALL	UCART1	479580.1	3774601	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
286	ALL	UCART1	479618.4	3774601	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
287	ALL	UCART1	479656.7	3774601	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
288	ALL	UCART1	479694.9	3774601	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
289	ALL	UCART1	479733.2	3774601	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
290	ALL	UCART1	479771.4	3774601	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
291	ALL	UCART1	479809.7	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-04
292	ALL	UCART1	479848	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
293	ALL	UCART1	479886.2	3774601	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
294	ALL	UCART1	479924.5	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-04
295	ALL	UCART1	479159.3	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
296	ALL	UCART1	479197.5	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04

297	ALL	UCART1	479235.8	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
298	ALL	UCART1	479274.1	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
299	ALL	UCART1	479312.3	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
300	ALL	UCART1	479350.6	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
301	ALL	UCART1	479388.8	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
302	ALL	UCART1	479427.1	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
303	ALL	UCART1	479465.4	3774631	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
304	ALL	UCART1	479503.6	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
305	ALL	UCART1	479541.9	3774631	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
306	ALL	UCART1	479580.1	3774631	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
307	ALL	UCART1	479618.4	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
308	ALL	UCART1	479656.7	3774631	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
309	ALL	UCART1	479694.9	3774631	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
310	ALL	UCART1	479733.2	3774631	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
311	ALL	UCART1	479771.4	3774631	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
312	ALL	UCART1	479809.7	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
313	ALL	UCART1	479848	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-04
314	ALL	UCART1	479886.2	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04
315	ALL	UCART1	479924.5	3774631	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
316	ALL	UCART1	479159.3	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
317	ALL	UCART1	479197.5	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
318	ALL	UCART1	479235.8	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
319	ALL	UCART1	479274.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
320	ALL	UCART1	479312.3	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
321	ALL	UCART1	479350.6	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
322	ALL	UCART1	479388.8	3774661	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
323	ALL	UCART1	479427.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-04
324	ALL	UCART1	479465.4	3774661	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
325	ALL	UCART1	479503.6	3774661	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
326	ALL	UCART1	479541.9	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
327	ALL	UCART1	479580.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
328	ALL	UCART1	479618.4	3774661	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
329	ALL	UCART1	479656.7	3774661	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
330	ALL	UCART1	479694.9	3774661	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
331	ALL	UCART1	479733.2	3774661	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
332	ALL	UCART1	479771.4	3774661	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
333	ALL	UCART1	479809.7	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
334	ALL	UCART1	479848	3774661	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
335	ALL	UCART1	479886.2	3774661	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
336	ALL	UCART1	479924.5	3774661	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
337	ALL	UCART1	479159.3	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
338	ALL	UCART1	479197.5	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
339	ALL	UCART1	479235.8	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
340	ALL	UCART1	479274.1	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
341	ALL	UCART1	479312.3	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
342	ALL	UCART1	479350.6	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
343	ALL	UCART1	479388.8	3774690	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
344	ALL	UCART1	479427.1	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
345	ALL	UCART1	479465.4	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
346	ALL	UCART1	479503.6	3774690	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
347	ALL	UCART1	479541.9	3774690	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
348	ALL	UCART1	479580.1	3774690	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
349	ALL	UCART1	479618.4	3774690	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
350	ALL	UCART1	479656.7	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-04
351	ALL	UCART1	479694.9	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
352	ALL	UCART1	479733.2	3774690	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
353	ALL	UCART1	479771.4	3774690	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
354	ALL	UCART1	479809.7	3774690	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
355	ALL	UCART1	479848	3774690	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
356	ALL	UCART1	479886.2	3774690	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
357	ALL	UCART1	479924.5	3774690	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
358	ALL	UCART1	479159.3	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
359	ALL	UCART1	479197.5	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
360	ALL	UCART1	479235.8	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
361	ALL	UCART1	479274.1	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
362	ALL	UCART1	479312.3	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
363	ALL	UCART1	479350.6	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
364	ALL	UCART1	479388.8	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
365	ALL	UCART1	479427.1	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
366	ALL	UCART1	479465.4	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
367	ALL	UCART1	479503.6	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
368	ALL	UCART1	479541.9	3774720	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
369	ALL	UCART1	479580.1	3774720	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
370	ALL	UCART1	479618.4	3774720	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
371	ALL	UCART1	479656.7	3774720	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
372	ALL	UCART1	479694.9	3774720	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
373	ALL	UCART1	479733.2	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
374	ALL	UCART1	479771.4	3774720	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
375	ALL	UCART1	479809.7	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
376	ALL	UCART1	479848	3774720	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
377	ALL	UCART1	479886.2	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
378	ALL	UCART1	479924.5	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
379	ALL	UCART1	479159.3	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
380	ALL	UCART1	479197.5	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
381	ALL	UCART1	479235.8	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
382	ALL	UCART1	479274.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
383	ALL	UCART1	479312.3	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
384	ALL	UCART1	479350.6	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
385	ALL	UCART1	479388.8	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
386	ALL	UCART1	479427.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
387	ALL	UCART1	479465.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
388	ALL	UCART1	479503.6	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
389	ALL	UCART1	479541.9	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
390	ALL	UCART1	479580.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
391	ALL	UCART1	479618.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
392	ALL	UCART1	479656.7	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
393	ALL	UCART1	479694.9	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
394	ALL	UCART1	479733.2	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
395	ALL	UCART1	479771.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04

396	ALL	UCART1	479809.7	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
397	ALL	UCART1	479848	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
398	ALL	UCART1	479886.2	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
399	ALL	UCART1	479924.5	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
400	ALL	UCART1	479159.3	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
401	ALL	UCART1	479197.5	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
402	ALL	UCART1	479235.8	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
403	ALL	UCART1	479274.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
404	ALL	UCART1	479312.3	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
405	ALL	UCART1	479350.6	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
406	ALL	UCART1	479388.8	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
407	ALL	UCART1	479427.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
408	ALL	UCART1	479465.4	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
409	ALL	UCART1	479503.6	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
410	ALL	UCART1	479541.9	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
411	ALL	UCART1	479580.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
412	ALL	UCART1	479618.4	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
413	ALL	UCART1	479656.7	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
414	ALL	UCART1	479694.9	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
415	ALL	UCART1	479733.2	3774779	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
416	ALL	UCART1	479771.4	3774779	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
417	ALL	UCART1	479809.7	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
418	ALL	UCART1	479848	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
419	ALL	UCART1	479886.2	3774779	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
420	ALL	UCART1	479924.5	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
421	ALL	UCART1	479159.3	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
422	ALL	UCART1	479197.5	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
423	ALL	UCART1	479235.8	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
424	ALL	UCART1	479274.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
425	ALL	UCART1	479312.3	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
426	ALL	UCART1	479350.6	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
427	ALL	UCART1	479388.8	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
428	ALL	UCART1	479427.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
429	ALL	UCART1	479465.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
430	ALL	UCART1	479503.6	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
431	ALL	UCART1	479541.9	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
432	ALL	UCART1	479580.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
433	ALL	UCART1	479618.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
434	ALL	UCART1	479656.7	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
435	ALL	UCART1	479694.9	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
436	ALL	UCART1	479733.2	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
437	ALL	UCART1	479771.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
438	ALL	UCART1	479809.7	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
439	ALL	UCART1	479848	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
440	ALL	UCART1	479886.2	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
441	ALL	UCART1	479924.5	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
442	ALL	UCART2	479959.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-04
443	ALL	UCART2	480038.8	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-04
444	ALL	UCART2	480117.8	3774402	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
445	ALL	UCART2	480196.9	3774402	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
446	ALL	UCART2	480276	3774402	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
447	ALL	UCART2	480355	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
448	ALL	UCART2	480434.1	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
449	ALL	UCART2	480513.2	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
450	ALL	UCART2	480592.3	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
451	ALL	UCART2	480671.3	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
452	ALL	UCART2	480750.4	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
453	ALL	UCART2	480829.5	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
454	ALL	UCART2	480908.5	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
455	ALL	UCART2	480987.6	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
456	ALL	UCART2	481066.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
457	ALL	UCART2	481145.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
458	ALL	UCART2	481224.8	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
459	ALL	UCART2	481303.9	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
460	ALL	UCART2	481383	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-05
461	ALL	UCART2	481462	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
462	ALL	UCART2	481541.1	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
463	ALL	UCART2	479959.7	3774421	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
464	ALL	UCART2	480038.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-04
465	ALL	UCART2	480117.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-04
466	ALL	UCART2	480196.9	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-04
467	ALL	UCART2	480276	3774421	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
468	ALL	UCART2	480355	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
469	ALL	UCART2	480434.1	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E-04
470	ALL	UCART2	480513.2	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
471	ALL	UCART2	480592.3	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
472	ALL	UCART2	480671.3	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
473	ALL	UCART2	480750.4	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
474	ALL	UCART2	480829.5	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
475	ALL	UCART2	480908.5	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
476	ALL	UCART2	480987.6	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
477	ALL	UCART2	481066.7	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
478	ALL	UCART2	481145.7	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
479	ALL	UCART2	481224.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
480	ALL	UCART2	481303.9	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
481	ALL	UCART2	481383	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.61E-05
482	ALL	UCART2	481462	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-05
483	ALL	UCART2	481541.1	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
484	ALL	UCART2	479959.7	3774441	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
485	ALL	UCART2	480038.8	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-04
486	ALL	UCART2	480117.8	3774441	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
487	ALL	UCART2	480196.9	3774441	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
488	ALL	UCART2	480276	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
489	ALL	UCART2	480355	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
490	ALL	UCART2	480434.1	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
491	ALL	UCART2	480513.2	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
492	ALL	UCART2	480592.3	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
493	ALL	UCART2	480671.3	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
494	ALL	UCART2	480750.4	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04

495	ALL	UCART2	480829.5	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
496	ALL	UCART2	480908.5	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
497	ALL	UCART2	480987.6	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
498	ALL	UCART2	481066.7	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
499	ALL	UCART2	481145.7	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
500	ALL	UCART2	481224.8	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
501	ALL	UCART2	481303.9	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
502	ALL	UCART2	481383	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-05
503	ALL	UCART2	481462	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
504	ALL	UCART2	481541.1	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
505	ALL	UCART2	479959.7	3774460	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
506	ALL	UCART2	480038.8	3774460	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
507	ALL	UCART2	480117.8	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
508	ALL	UCART2	480196.9	3774460	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
509	ALL	UCART2	480276	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
510	ALL	UCART2	480355	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
511	ALL	UCART2	480434.1	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
512	ALL	UCART2	480513.2	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
513	ALL	UCART2	480592.3	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
514	ALL	UCART2	480671.3	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
515	ALL	UCART2	480750.4	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
516	ALL	UCART2	480829.5	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
517	ALL	UCART2	480908.5	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
518	ALL	UCART2	480987.6	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
519	ALL	UCART2	481066.7	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
520	ALL	UCART2	481145.7	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
521	ALL	UCART2	481224.8	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-05
522	ALL	UCART2	481303.9	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.66E-05
523	ALL	UCART2	481383	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05
524	ALL	UCART2	481462	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
525	ALL	UCART2	481541.1	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
526	ALL	UCART2	479959.7	3774479	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
527	ALL	UCART2	480038.8	3774479	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
528	ALL	UCART2	480117.8	3774479	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
529	ALL	UCART2	480196.9	3774479	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
530	ALL	UCART2	480276	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04
531	ALL	UCART2	480355	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
532	ALL	UCART2	480434.1	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
533	ALL	UCART2	480513.2	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
534	ALL	UCART2	480592.3	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
535	ALL	UCART2	480671.3	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
536	ALL	UCART2	480750.4	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
537	ALL	UCART2	480829.5	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
538	ALL	UCART2	480908.5	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
539	ALL	UCART2	480987.6	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
540	ALL	UCART2	481066.7	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
541	ALL	UCART2	481145.7	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
542	ALL	UCART2	481224.8	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
543	ALL	UCART2	481303.9	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
544	ALL	UCART2	481383	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
545	ALL	UCART2	481462	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
546	ALL	UCART2	481541.1	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
547	ALL	UCART2	479959.7	3774498	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
548	ALL	UCART2	480038.8	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
549	ALL	UCART2	480117.8	3774498	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
550	ALL	UCART2	480196.9	3774498	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
551	ALL	UCART2	480276	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
552	ALL	UCART2	480355	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
553	ALL	UCART2	480434.1	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
554	ALL	UCART2	480513.2	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
555	ALL	UCART2	480592.3	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
556	ALL	UCART2	480671.3	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
557	ALL	UCART2	480750.4	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
558	ALL	UCART2	480829.5	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
559	ALL	UCART2	480908.5	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
560	ALL	UCART2	480987.6	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
561	ALL	UCART2	481066.7	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
562	ALL	UCART2	481145.7	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05
563	ALL	UCART2	481224.8	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
564	ALL	UCART2	481303.9	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
565	ALL	UCART2	481383	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
566	ALL	UCART2	481462	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
567	ALL	UCART2	481541.1	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
568	ALL	UCART2	479959.7	3774518	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
569	ALL	UCART2	480038.8	3774518	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
570	ALL	UCART2	480117.8	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
571	ALL	UCART2	480196.9	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
572	ALL	UCART2	480276	3774518	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
573	ALL	UCART2	480355	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
574	ALL	UCART2	480434.1	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
575	ALL	UCART2	480513.2	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
576	ALL	UCART2	480592.3	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
577	ALL	UCART2	480671.3	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
578	ALL	UCART2	480750.4	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
579	ALL	UCART2	480829.5	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
580	ALL	UCART2	480908.5	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
581	ALL	UCART2	480987.6	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
582	ALL	UCART2	481066.7	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05
583	ALL	UCART2	481145.7	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
584	ALL	UCART2	481224.8	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.55E-05
585	ALL	UCART2	481303.9	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
586	ALL	UCART2	481383	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-05
587	ALL	UCART2	481462	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
588	ALL	UCART2	481541.1	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-05
589	ALL	UCART2	479959.7	3774537	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
590	ALL	UCART2	480038.8	3774537	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
591	ALL	UCART2	480117.8	3774537	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
592	ALL	UCART2	480196.9	3774537	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
593	ALL	UCART2	480276	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04

594	ALL	UCART2	480355	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
595	ALL	UCART2	480434.1	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
596	ALL	UCART2	480513.2	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
597	ALL	UCART2	480592.3	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
598	ALL	UCART2	480671.3	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
599	ALL	UCART2	480750.4	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
600	ALL	UCART2	480829.5	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
601	ALL	UCART2	480908.5	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
602	ALL	UCART2	480987.6	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
603	ALL	UCART2	481066.7	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05
604	ALL	UCART2	481145.7	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.94E-05
605	ALL	UCART2	481224.8	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.31E-05
606	ALL	UCART2	481303.9	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
607	ALL	UCART2	481383	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-05
608	ALL	UCART2	481462	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-05
609	ALL	UCART2	481541.1	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
610	ALL	UCART2	479959.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-04
611	ALL	UCART2	480038.8	3774556	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
612	ALL	UCART2	480117.8	3774556	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
613	ALL	UCART2	480196.9	3774556	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
614	ALL	UCART2	480276	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
615	ALL	UCART2	480355	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
616	ALL	UCART2	480434.1	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
617	ALL	UCART2	480513.2	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
618	ALL	UCART2	480592.3	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
619	ALL	UCART2	480671.3	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
620	ALL	UCART2	480750.4	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
621	ALL	UCART2	480829.5	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
622	ALL	UCART2	480908.5	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
623	ALL	UCART2	480987.6	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
624	ALL	UCART2	481066.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
625	ALL	UCART2	481145.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05
626	ALL	UCART2	481224.8	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
627	ALL	UCART2	481303.9	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-05
628	ALL	UCART2	481383	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
629	ALL	UCART2	481462	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
630	ALL	UCART2	481541.1	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
631	ALL	UCART2	479959.7	3774576	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
632	ALL	UCART2	480038.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
633	ALL	UCART2	480117.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
634	ALL	UCART2	480196.9	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
635	ALL	UCART2	480276	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
636	ALL	UCART2	480355	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
637	ALL	UCART2	480434.1	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
638	ALL	UCART2	480513.2	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
639	ALL	UCART2	480592.3	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
640	ALL	UCART2	480671.3	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
641	ALL	UCART2	480750.4	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
642	ALL	UCART2	480829.5	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
643	ALL	UCART2	480908.5	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
644	ALL	UCART2	480987.6	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.98E-05
645	ALL	UCART2	481066.7	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
646	ALL	UCART2	481145.7	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
647	ALL	UCART2	481224.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
648	ALL	UCART2	481303.9	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
649	ALL	UCART2	481383	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
650	ALL	UCART2	481462	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-05
651	ALL	UCART2	481541.1	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
652	ALL	UCART2	479959.7	3774595	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
653	ALL	UCART2	480038.8	3774595	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
654	ALL	UCART2	480117.8	3774595	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
655	ALL	UCART2	480196.9	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
656	ALL	UCART2	480276	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
657	ALL	UCART2	480355	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
658	ALL	UCART2	480434.1	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
659	ALL	UCART2	480513.2	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
660	ALL	UCART2	480592.3	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
661	ALL	UCART2	480671.3	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
662	ALL	UCART2	480750.4	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
663	ALL	UCART2	480829.5	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
664	ALL	UCART2	480908.5	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
665	ALL	UCART2	480987.6	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
666	ALL	UCART2	481066.7	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
667	ALL	UCART2	481145.7	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
668	ALL	UCART2	481224.8	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
669	ALL	UCART2	481303.9	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05
670	ALL	UCART2	481383	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
671	ALL	UCART2	481462	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
672	ALL	UCART2	481541.1	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
673	ALL	UCART2	479959.7	3774614	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
674	ALL	UCART2	480038.8	3774614	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
675	ALL	UCART2	480117.8	3774614	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
676	ALL	UCART2	480196.9	3774614	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
677	ALL	UCART2	480276	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
678	ALL	UCART2	480355	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
679	ALL	UCART2	480434.1	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
680	ALL	UCART2	480513.2	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
681	ALL	UCART2	480592.3	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
682	ALL	UCART2	480671.3	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
683	ALL	UCART2	480750.4	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
684	ALL	UCART2	480829.5	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
685	ALL	UCART2	480908.5	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
686	ALL	UCART2	480987.6	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.45E-05
687	ALL	UCART2	481066.7	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
688	ALL	UCART2	481145.7	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
689	ALL	UCART2	481224.8	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
690	ALL	UCART2	481303.9	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
691	ALL	UCART2	481383	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-05
692	ALL	UCART2	481462	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-05

693	ALL	UCART2	481541.1	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.83E-05
694	ALL	UCART2	479959.7	3774634	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
695	ALL	UCART2	480038.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-04
696	ALL	UCART2	480117.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-04
697	ALL	UCART2	480196.9	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
698	ALL	UCART2	480276	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
699	ALL	UCART2	480355	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
700	ALL	UCART2	480434.1	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
701	ALL	UCART2	480513.2	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
702	ALL	UCART2	480592.3	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
703	ALL	UCART2	480671.3	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
704	ALL	UCART2	480750.4	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
705	ALL	UCART2	480829.5	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
706	ALL	UCART2	480908.5	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
707	ALL	UCART2	480987.6	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05
708	ALL	UCART2	481066.7	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-05
709	ALL	UCART2	481145.7	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
710	ALL	UCART2	481224.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
711	ALL	UCART2	481303.9	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-05
712	ALL	UCART2	481383	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-05
713	ALL	UCART2	481462	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
714	ALL	UCART2	481541.1	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.69E-05
715	ALL	UCART2	479959.7	3774653	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
716	ALL	UCART2	480038.8	3774653	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
717	ALL	UCART2	480117.8	3774653	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
718	ALL	UCART2	480196.9	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
719	ALL	UCART2	480276	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
720	ALL	UCART2	480355	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
721	ALL	UCART2	480434.1	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
722	ALL	UCART2	480513.2	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
723	ALL	UCART2	480592.3	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
724	ALL	UCART2	480671.3	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
725	ALL	UCART2	480750.4	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
726	ALL	UCART2	480829.5	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
727	ALL	UCART2	480908.5	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-05
728	ALL	UCART2	480987.6	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05
729	ALL	UCART2	481066.7	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05
730	ALL	UCART2	481145.7	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
731	ALL	UCART2	481224.8	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-05
732	ALL	UCART2	481303.9	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E-05
733	ALL	UCART2	481383	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
734	ALL	UCART2	481462	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-05
735	ALL	UCART2	481541.1	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
736	ALL	UCART2	479959.7	3774672	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
737	ALL	UCART2	480038.8	3774672	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
738	ALL	UCART2	480117.8	3774672	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
739	ALL	UCART2	480196.9	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
740	ALL	UCART2	480276	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
741	ALL	UCART2	480355	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
742	ALL	UCART2	480434.1	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
743	ALL	UCART2	480513.2	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
744	ALL	UCART2	480592.3	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
745	ALL	UCART2	480671.3	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
746	ALL	UCART2	480750.4	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
747	ALL	UCART2	480829.5	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
748	ALL	UCART2	480908.5	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05
749	ALL	UCART2	480987.6	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-05
750	ALL	UCART2	481066.7	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05
751	ALL	UCART2	481145.7	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-05
752	ALL	UCART2	481224.8	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E-05
753	ALL	UCART2	481303.9	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-05
754	ALL	UCART2	481383	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-05
755	ALL	UCART2	481462	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-05
756	ALL	UCART2	481541.1	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-05
757	ALL	UCART2	479959.7	3774692	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
758	ALL	UCART2	480038.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
759	ALL	UCART2	480117.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
760	ALL	UCART2	480196.9	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
761	ALL	UCART2	480276	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
762	ALL	UCART2	480355	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
763	ALL	UCART2	480434.1	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
764	ALL	UCART2	480513.2	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
765	ALL	UCART2	480592.3	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
766	ALL	UCART2	480671.3	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
767	ALL	UCART2	480750.4	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
768	ALL	UCART2	480829.5	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
769	ALL	UCART2	480908.5	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.35E-05
770	ALL	UCART2	480987.6	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-05
771	ALL	UCART2	481066.7	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
772	ALL	UCART2	481145.7	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
773	ALL	UCART2	481224.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-05
774	ALL	UCART2	481303.9	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
775	ALL	UCART2	481383	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-05
776	ALL	UCART2	481462	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.63E-05
777	ALL	UCART2	481541.1	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
778	ALL	UCART2	479959.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
779	ALL	UCART2	480038.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
780	ALL	UCART2	480117.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
781	ALL	UCART2	480196.9	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
782	ALL	UCART2	480276	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
783	ALL	UCART2	480355	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
784	ALL	UCART2	480434.1	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
785	ALL	UCART2	480513.2	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
786	ALL	UCART2	480592.3	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
787	ALL	UCART2	480671.3	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
788	ALL	UCART2	480750.4	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
789	ALL	UCART2	480829.5	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
790	ALL	UCART2	480908.5	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
791	ALL	UCART2	480987.6	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05

792	ALL	UCART2	481066.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
793	ALL	UCART2	481145.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-05
794	ALL	UCART2	481224.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-05
795	ALL	UCART2	481303.9	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.23E-05
796	ALL	UCART2	481383	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
797	ALL	UCART2	481462	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
798	ALL	UCART2	481541.1	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-05
799	ALL	UCART2	479959.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
800	ALL	UCART2	480038.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
801	ALL	UCART2	480117.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
802	ALL	UCART2	480196.9	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
803	ALL	UCART2	480276	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
804	ALL	UCART2	480355	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
805	ALL	UCART2	480434.1	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
806	ALL	UCART2	480513.2	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
807	ALL	UCART2	480592.3	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
808	ALL	UCART2	480671.3	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
809	ALL	UCART2	480750.4	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
810	ALL	UCART2	480829.5	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
811	ALL	UCART2	480908.5	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05
812	ALL	UCART2	480987.6	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
813	ALL	UCART2	481066.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
814	ALL	UCART2	481145.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-05
815	ALL	UCART2	481224.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
816	ALL	UCART2	481303.9	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
817	ALL	UCART2	481383	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-05
818	ALL	UCART2	481462	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
819	ALL	UCART2	481541.1	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
820	ALL	UCART2	479959.7	3774749	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
821	ALL	UCART2	480038.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
822	ALL	UCART2	480117.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-04
823	ALL	UCART2	480196.9	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
824	ALL	UCART2	480276	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
825	ALL	UCART2	480355	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
826	ALL	UCART2	480434.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
827	ALL	UCART2	480513.2	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
828	ALL	UCART2	480592.3	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
829	ALL	UCART2	480671.3	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
830	ALL	UCART2	480750.4	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
831	ALL	UCART2	480829.5	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
832	ALL	UCART2	480908.5	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
833	ALL	UCART2	480987.6	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
834	ALL	UCART2	481066.7	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05
835	ALL	UCART2	481145.7	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
836	ALL	UCART2	481224.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-05
837	ALL	UCART2	481303.9	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
838	ALL	UCART2	481383	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
839	ALL	UCART2	481462	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
840	ALL	UCART2	481541.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-05
841	ALL	UCART2	479959.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
842	ALL	UCART2	480038.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
843	ALL	UCART2	480117.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
844	ALL	UCART2	480196.9	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
845	ALL	UCART2	480276	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
846	ALL	UCART2	480355	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
847	ALL	UCART2	480434.1	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
848	ALL	UCART2	480513.2	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
849	ALL	UCART2	480592.3	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
850	ALL	UCART2	480671.3	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
851	ALL	UCART2	480750.4	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
852	ALL	UCART2	480829.5	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05
853	ALL	UCART2	480908.5	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
854	ALL	UCART2	480987.6	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
855	ALL	UCART2	481066.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
856	ALL	UCART2	481145.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
857	ALL	UCART2	481224.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-05
858	ALL	UCART2	481303.9	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
859	ALL	UCART2	481383	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05
860	ALL	UCART2	481462	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
861	ALL	UCART2	481541.1	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-05
862	ALL	UCART2	479959.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
863	ALL	UCART2	480038.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
864	ALL	UCART2	480117.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
865	ALL	UCART2	480196.9	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
866	ALL	UCART2	480276	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
867	ALL	UCART2	480355	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
868	ALL	UCART2	480434.1	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
869	ALL	UCART2	480513.2	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
870	ALL	UCART2	480592.3	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
871	ALL	UCART2	480671.3	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
872	ALL	UCART2	480750.4	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.87E-05
873	ALL	UCART2	480829.5	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
874	ALL	UCART2	480908.5	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
875	ALL	UCART2	480987.6	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
876	ALL	UCART2	481066.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
877	ALL	UCART2	481145.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
878	ALL	UCART2	481224.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.14E-05
879	ALL	UCART2	481303.9	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
880	ALL	UCART2	481383	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-05
881	ALL	UCART2	481462	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
882	ALL	UCART2	481541.1	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-05
883	ALL		479864.1	3774073	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-03
884	ALL		479887.9	3774070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-03
885	ALL		479901.1	3774139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-03
886	ALL		479776.3	3774150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-02
887	ALL		479737.3	3774106	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.30E-02
888	ALL		479857.1	3774102	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-03
889	ALL		479856.5	3774054	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-03
890	ALL		479923.4	3774051	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-03

891	ALL	479923.4	3774009	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-03
892	ALL	479737.8	3774014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-02

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3rd and Central Warehouse HRA Mitigated

South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	27.16	1000sqft	0.62	27,165.00	0
Unrefrigerated Warehouse-Rail	27.16	1000sqft	0.62	27,165.00	0
Other Asphalt Surfaces	0.53	Acre	0.53	23,086.80	0
Parking Lot	64.00	Space	0.58	25,600.00	0
City Park	0.66	Acre	0.66	28,749.60	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	10			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan for project. Project building split in half to model cars and trucks separately.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips were rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on existing buildings and asphalt onsite.

Grading - Based on site plan.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Based on traffic report. Land use "no-rail" represents passenger cars while "rail" represents trucks. Distance based on line-volume source in AERMOD.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - CalEEMod defaults.

Energy Use - CalEEMod defaults.

Water And Wastewater - CalEEMod defaults. Onsite septic system for indoor water treatment.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with SCAQMD Rule 403. Mitigation includes Tier 4 Interim construction equipment.

Operational Off-Road Equipment - Based on SCAQMD high-cube warehouse survey. Mitigation included natural gas forklifts during operation.

Fleet Mix - Based on traffic assessment and EMFAC vehicle mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	230.00	160.00
tblFleetMix	HHD	9.1370e-003	0.00
tblFleetMix	HHD	9.1370e-003	0.65

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LDA	0.54	0.59
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.08
tblFleetMix	LHD2	6.3530e-003	0.00
tblFleetMix	LHD2	6.3530e-003	0.08
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MH	3.7910e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.19
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	SBUS	7.5000e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblFleetMix	UBUS	5.0900e-004	0.00
tblGrading	MaterialImported	0.00	188.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblLandUse	LandUseSquareFeet	27,160.00	27,165.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripLength	20.00	0.19
tblTripsAndVMT	HaulingTripNumber	233.00	234.00
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripLength	6.90	0.19
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	8.40	16.60
tblVehicleTrips	CC_TL	8.40	2.09
tblVehicleTrips	CNW_TL	6.90	16.60
tblVehicleTrips	CNW_TL	6.90	2.09

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CW_TL	16.60	2.09
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	ST_TR	1.74	0.96
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.96
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.96
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1456	1.3809	1.3129	2.2500e-003	0.1030	0.0688	0.1718	0.0429	0.0644	0.1073	0.0000	195.0089	195.0089	0.0490	5.0000e-004	196.3836
2023	0.3018	0.3849	0.4559	7.5000e-004	1.0000e-004	0.0186	0.0187	3.0000e-005	0.0174	0.0175	0.0000	64.3840	64.3840	0.0158	1.5000e-004	64.8255
Maximum	**0.3018**	**1.3809**	**1.3129**	**2.2500e-003**	**0.1030**	**0.0688**	**0.1718**	**0.0429**	**0.0644**	**0.1073**	**0.0000**	**195.0089**	**195.0089**	**0.0490**	**5.0000e-004**	**196.3836**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0428	0.8827	1.4673	2.2500e-003	0.0465	6.0800e-003	0.0526	0.0193	6.0800e-003	0.0254	0.0000	195.0087	195.0087	0.0490	5.0000e-004	196.3834
2023	0.2742	0.3048	0.5007	7.5000e-004	1.0000e-004	2.0000e-003	2.1000e-003	3.0000e-005	2.0000e-003	2.0300e-003	0.0000	64.3840	64.3840	0.0158	1.5000e-004	64.8254
Maximum	**0.2742**	**0.8827**	**1.4673**	**2.2500e-003**	**0.0465**	**6.0800e-003**	**0.0526**	**0.0193**	**6.0800e-003**	**0.0254**	**0.0000**	**195.0087**	**195.0087**	**0.0490**	**5.0000e-004**	**196.3834**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**29.16**	**32.75**	**-11.27**	**0.00**	**54.78**	**90.75**	**71.28**	**54.85**	**90.13**	**78.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2022**	**8-31-2022**	0.7550	0.4130
2	**9-1-2022**	**11-30-2022**	0.5728	0.3818
3	**12-1-2022**	**2-28-2023**	0.5286	0.3727
4	**3-1-2023**	**5-31-2023**	0.3591	0.3433
		Highest	0.7550	0.4130

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2694**	**0.6161**	**0.9013**	**1.5900e-003**	**8.1100e-003**	**0.0172**	**0.0253**	**2.2800e-003**	**0.0158**	**0.0181**	**10.3769**	**200.0392**	**210.4161**	**3.5079**	**0.0147**	**302.4977**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Energy	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	29.7702	29.7702	2.1300e-003	3.5000e-004	29.9283
Mobile	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Offroad	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Waste						0.0000	0.0000		0.0000	0.0000	10.3769	0.0000	10.3769	0.6133	0.0000	25.7083
Water						0.0000	0.0000		0.0000	0.0000	0.0000	30.5566	30.5566	2.8556	9.9800e-003	104.9200
Total	**0.2694**	**0.6161**	**0.9013**	**1.5900e-003**	**8.1100e-003**	**0.0172**	**0.0253**	**2.2800e-003**	**0.0158**	**0.0181**	**10.3769**	**200.0392**	**210.4161**	**3.5079**	**0.0147**	**302.4977**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/5/2022	5	5	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	7/6/2022	7/15/2022	5	8	
4	Building Construction	Building Construction	7/16/2022	2/24/2023	5	160	
5	Paving	Paving	2/25/2023	3/22/2023	5	18	
6	Architectural Coating	Architectural Coating	3/23/2023	4/17/2023	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,495; Non-Residential Outdoor: 27,165; Striped Parking Area: 2,921 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	4.00	234.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Grading	6	0.00	4.00	24.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	22.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Paving	8	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	4.00	0.00	14.70	0.19	0.19	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0252	0.0000	0.0252	3.8200e-003	0.0000	3.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**	**0.0252**	**0.0124**	**0.0377**	**3.8200e-003**	**0.0116**	**0.0154**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	2.4500e-003	1.7200e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3810	0.3810	1.0000e-005	6.0000e-005	0.3992
Vendor	3.0000e-005	5.2000e-004	3.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0803	0.0803	0.0000	1.0000e-005	0.0841
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**2.9700e-003**	**2.0900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4612**	**0.4612**	**1.0000e-005**	**7.0000e-005**	**0.4833**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0114	0.0000	0.0114	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8400e-003	0.1356	0.2467	3.9000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**5.8400e-003**	**0.1356**	**0.2467**	**3.9000e-004**	**0.0114**	**6.2000e-004**	**0.0120**	**1.7200e-003**	**6.2000e-004**	**2.3400e-003**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	2.4500e-003	1.7200e-003	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.3810	0.3810	1.0000e-005	6.0000e-005	0.3992
Vendor	3.0000e-005	5.2000e-004	3.7000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0803	0.0803	0.0000	1.0000e-005	0.0841
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.6000e-004**	**2.9700e-003**	**2.0900e-003**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.4612**	**0.4612**	**1.0000e-005**	**7.0000e-005**	**0.4833**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	**7.9300e-003**	**0.0827**	**0.0492**	**1.0000e-004**	**0.0491**	**4.0300e-003**	**0.0532**	**0.0253**	**3.7100e-003**	**0.0290**	**0.0000**	**8.3599**	**8.3599**	**2.7000e-003**	**0.0000**	**8.4274**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0201	0.0201	0.0000	0.0000	0.0210
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0000e-005**	**1.3000e-004**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0201**	**0.0201**	**0.0000**	**0.0000**	**0.0210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0221	0.0000	0.0221	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0304	0.0574	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	**1.7400e-003**	**0.0304**	**0.0574**	**1.0000e-004**	**0.0221**	**1.6000e-004**	**0.0223**	**0.0114**	**1.6000e-004**	**0.0115**	**0.0000**	**8.3598**	**8.3598**	**2.7000e-003**	**0.0000**	**8.4274**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	1.3000e-004	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0201	0.0201	0.0000	0.0000	0.0210
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0000e-005**	**1.3000e-004**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0201**	**0.0201**	**0.0000**	**0.0000**	**0.0210**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**7.7900e-003**	**0.0834**	**0.0611**	**1.2000e-004**	**0.0283**	**3.7600e-003**	**0.0321**	**0.0137**	**3.4600e-003**	**0.0172**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0391	0.0391	0.0000	1.0000e-005	0.0409
Vendor	1.0000e-005	2.1000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0321	0.0321	0.0000	0.0000	0.0336
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.6000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0712**	**0.0712**	**0.0000**	**1.0000e-005**	**0.0746**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	6.1700e-003	0.0000	6.1700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0800e-003	0.0413	0.0760	1.2000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	**2.0800e-003**	**0.0413**	**0.0760**	**1.2000e-004**	**0.0128**	**1.9000e-004**	**0.0129**	**6.1700e-003**	**1.9000e-004**	**6.3600e-003**	**0.0000**	**10.4219**	**10.4219**	**3.3700e-003**	**0.0000**	**10.5062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0391	0.0391	0.0000	1.0000e-005	0.0409
Vendor	1.0000e-005	2.1000e-004	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0321	0.0321	0.0000	0.0000	0.0336
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.6000e-004**	**3.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0712**	**0.0712**	**0.0000**	**1.0000e-005**	**0.0746**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0352	139.0352	0.0333	0.0000	139.8679
Total	**0.1024**	**0.9369**	**0.9818**	**1.6200e-003**		**0.0485**	**0.0485**		**0.0457**	**0.0457**	**0.0000**	**139.0352**	**139.0352**	**0.0333**	**0.0000**	**139.8679**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0171	0.0123	3.0000e-005	2.6000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.6493	2.6493	9.0000e-005	4.1000e-004	2.7744
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0171**	**0.0123**	**3.0000e-005**	**2.6000e-004**	**3.0000e-005**	**3.0000e-004**	**8.0000e-005**	**3.0000e-005**	**1.1000e-004**	**0.0000**	**2.6493**	**2.6493**	**9.0000e-005**	**4.1000e-004**	**2.7744**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.6547	1.0724	1.6200e-003		5.0800e-003	5.0800e-003		5.0800e-003	5.0800e-003	0.0000	139.0350	139.0350	0.0333	0.0000	139.8677
Total	**0.0320**	**0.6547**	**1.0724**	**1.6200e-003**		**5.0800e-003**	**5.0800e-003**		**5.0800e-003**	**5.0800e-003**	**0.0000**	**139.0350**	**139.0350**	**0.0333**	**0.0000**	**139.8677**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-004	0.0171	0.0123	3.0000e-005	2.6000e-004	3.0000e-005	3.0000e-004	8.0000e-005	3.0000e-005	1.1000e-004	0.0000	2.6493	2.6493	9.0000e-005	4.1000e-004	2.7744
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.0000e-004**	**0.0171**	**0.0123**	**3.0000e-005**	**2.6000e-004**	**3.0000e-005**	**3.0000e-004**	**8.0000e-005**	**3.0000e-005**	**1.1000e-004**	**0.0000**	**2.6493**	**2.6493**	**9.0000e-005**	**4.1000e-004**	**2.7744**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367
Total	**0.0315**	**0.2877**	**0.3249**	**5.4000e-004**		**0.0140**	**0.0140**		**0.0132**	**0.0132**	**0.0000**	**46.3610**	**46.3610**	**0.0110**	**0.0000**	**46.6367**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	5.4500e-003	4.2600e-003	1.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.8460	0.8460	3.0000e-005	1.3000e-004	0.8860
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**5.4500e-003**	**4.2600e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**0.8460**	**0.8460**	**3.0000e-005**	**1.3000e-004**	**0.8860**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0107	0.2182	0.3575	5.4000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366
Total	**0.0107**	**0.2182**	**0.3575**	**5.4000e-004**		**1.6900e-003**	**1.6900e-003**		**1.6900e-003**	**1.6900e-003**	**0.0000**	**46.3609**	**46.3609**	**0.0110**	**0.0000**	**46.6366**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	5.4500e-003	4.2600e-003	1.0000e-005	9.0000e-005	1.0000e-005	9.0000e-005	3.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.8460	0.8460	3.0000e-005	1.3000e-004	0.8860
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.9000e-004**	**5.4500e-003**	**4.2600e-003**	**1.0000e-005**	**9.0000e-005**	**1.0000e-005**	**9.0000e-005**	**3.0000e-005**	**1.0000e-005**	**3.0000e-005**	**0.0000**	**0.8460**	**0.8460**	**3.0000e-005**	**1.3000e-004**	**0.8860**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2600e-003	0.0791	0.1097	1.7000e-004		3.9200e-003	3.9200e-003		3.6200e-003	3.6200e-003	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.7100e-003**	**0.0791**	**0.1097**	**1.7000e-004**		**3.9200e-003**	**3.9200e-003**		**3.6200e-003**	**3.6200e-003**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6200e-003	0.0706	0.1218	1.7000e-004		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	14.7407	14.7407	4.6300e-003	0.0000	14.8565
Paving	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0700e-003**	**0.0706**	**0.1218**	**1.7000e-004**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**14.7407**	**14.7407**	**4.6300e-003**	**0.0000**	**14.8565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7200e-003	0.0117	0.0163	3.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2603**	**0.0117**	**0.0163**	**3.0000e-005**		**6.4000e-004**	**6.4000e-004**		**6.4000e-004**	**6.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2586					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-004	9.5400e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	1.4000e-004	0.0000	2.3014
Total	**0.2591**	**9.5400e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**1.4000e-004**	**0.0000**	**2.3014**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.5000e-004	3.5000e-004	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0692	0.0692	0.0000	1.0000e-005	0.0725
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.0000e-005**	**4.5000e-004**	**3.5000e-004**	**0.0000**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0692**	**0.0692**	**0.0000**	**1.0000e-005**	**0.0725**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146
Unmitigated	4.4300e-003	0.0999	0.0604	3.0000e-004	8.1100e-003	3.5000e-004	8.4600e-003	2.2800e-003	3.3000e-004	2.6100e-003	0.0000	29.1797	29.1797	1.1700e-003	4.3800e-003	30.5146

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-Rail	26.00	26.00	26.00	18,473	18,473
Total	26.00	26.00	26.00	18,473	18,473

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	16.60	16.60	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-Rail	2.09	2.09	2.09	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Other Asphalt Surfaces	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Unrefrigerated Warehouse-No Rail	0.591071	0.066110	0.201065	0.141753	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.076923	0.076923	0.192308	0.653846	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

3rd and Central Warehouse HRA Mitigated - South Coast AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	23.9426	23.9426	2.0200e-003	2.4000e-004	24.0662
NaturalGas Mitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621
NaturalGas Unmitigated	5.9000e-004	5.3500e-003	4.5000e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	5.8275	5.8275	1.1000e-004	1.1000e-004	5.8621

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Unrefrigerated Warehouse-Rail	54601.6	2.9000e-004	2.6800e-003	2.2500e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.9138	2.9138	6.0000e-005	5.0000e-005	2.9311
Total		**5.8000e-004**	**5.3600e-003**	**4.5000e-003**	**4.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**5.8275**	**5.8275**	**1.2000e-004**	**1.0000e-004**	**5.8621**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	8960	1.5890	1.3000e-004	2.0000e-005	1.5972
Unrefrigerated Warehouse-No Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Unrefrigerated Warehouse-Rail	63022.8	11.1768	9.4000e-004	1.1000e-004	11.2345
Total		**23.9426**	**2.0100e-003**	**2.4000e-004**	**24.0662**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Unmitigated	0.2257	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1997					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.5300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.9700e-003	2.9700e-003	1.0000e-005	0.0000	3.1600e-003
Total	**0.2257**	**1.0000e-005**	**1.5300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**2.9700e-003**	**2.9700e-003**	**1.0000e-005**	**0.0000**	**3.1600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5566	2.8556	9.9800e-003	104.9200
Unmitigated	30.5566	2.8556	9.9800e-003	104.9200

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.786378	1.5494	1.3000e-004	2.0000e-005	1.5574
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Unrefrigerated Warehouse-Rail	6.28075 / 0	14.5036	1.4277	4.9800e-003	51.6813
Total		**30.5566**	**2.8556**	**9.9800e-003**	**104.9199**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.3769	0.6133	0.0000	25.7083
Unmitigated	10.3769	0.6133	0.0000	25.7083

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	25.53	5.1824	0.3063	0.0000	12.8391
Unrefrigerated Warehouse-Rail	25.53	5.1824	0.3063	0.0000	12.8391
Total		**10.3769**	**0.6133**	**0.0000**	**25.7083**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Rough Terrain Forklifts	2	8.00	365	100	0.40	CNG

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Rough Terrain Forklifts	0.0386	0.5108	0.8349	1.2600e-003		0.0164	0.0164		0.0151	0.0151	0.0000	110.5297	110.5297	0.0358	0.0000	111.4234
Total	**0.0386**	**0.5108**	**0.8349**	**1.2600e-003**		**0.0164**	**0.0164**		**0.0151**	**0.0151**	**0.0000**	**110.5297**	**110.5297**	**0.0358**	**0.0000**	**111.4234**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

HARP2 - HRACalc (dated 21081) 4/5/2022 9:38:27 AM - 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: 0.88

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.88
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: ON
16 years to 70 years: ON

****
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\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and Central\HARP\Construction\hra\Residential-MitigatedNCAcuteRiskSumByRec.csv
HRA ran successfully

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	479147.3	3774220	1.06E-07	0.88YrCanc	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
2	ALL	UCART1	479186.1	3774220	1.17E-07	0.88YrCanc	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
3	ALL	UCART1	479225	3774220	1.29E-07	0.88YrCanc	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
4	ALL	UCART1	479263.8	3774220	1.43E-07	0.88YrCanc	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
5	ALL	UCART1	479302.7	3774220	1.61E-07	0.88YrCanc	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
6	ALL	UCART1	479341.5	3774220	1.81E-07	0.88YrCanc	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
7	ALL	UCART1	479380.4	3774220	2.06E-07	0.88YrCanc	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
8	ALL	UCART1	479419.2	3774220	2.36E-07	0.88YrCanc	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
9	ALL	UCART1	479458.1	3774220	2.74E-07	0.88YrCanc	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
10	ALL	UCART1	479496.9	3774220	3.22E-07	0.88YrCanc	3.22E-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
11	ALL	UCART1	479535.8	3774220	3.81E-07	0.88YrCanc	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
12	ALL	UCART1	479574.6	3774220	4.58E-07	0.88YrCanc	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
13	ALL	UCART1	479613.5	3774220	5.54E-07	0.88YrCanc	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
14	ALL	UCART1	479652.3	3774220	6.74E-07	0.88YrCanc	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
15	ALL	UCART1	479691.2	3774220	8.13E-07	0.88YrCanc	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
16	ALL	UCART1	479730	3774220	9.53E-07	0.88YrCanc	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
17	ALL	UCART1	479768.9	3774220	1.06E-06	0.88YrCanc	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
18	ALL	UCART1	479807.7	3774220	1.10E-06	0.88YrCanc	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
19	ALL	UCART1	479846.6	3774220	1.06E-06	0.88YrCanc	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
20	ALL	UCART1	479885.4	3774220	9.65E-07	0.88YrCanc	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
21	ALL	UCART1	479924.3	3774220	8.38E-07	0.88YrCanc	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
22	ALL	UCART1	479147.3	3774259	1.03E-07	0.88YrCanc	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
23	ALL	UCART1	479186.1	3774259	1.13E-07	0.88YrCanc	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
24	ALL	UCART1	479225	3774259	1.25E-07	0.88YrCanc	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
25	ALL	UCART1	479263.8	3774259	1.38E-07	0.88YrCanc	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
26	ALL	UCART1	479302.7	3774259	1.54E-07	0.88YrCanc	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
27	ALL	UCART1	479341.5	3774259	1.72E-07	0.88YrCanc	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
28	ALL	UCART1	479380.4	3774259	1.94E-07	0.88YrCanc	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
29	ALL	UCART1	479419.2	3774259	2.21E-07	0.88YrCanc	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
30	ALL	UCART1	479458.1	3774259	2.53E-07	0.88YrCanc	2.53E-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
31	ALL	UCART1	479496.9	3774259	2.92E-07	0.88YrCanc	2.92E-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
32	ALL	UCART1	479535.8	3774259	3.39E-07	0.88YrCanc	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
33	ALL	UCART1	479574.6	3774259	3.96E-07	0.88YrCanc	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
34	ALL	UCART1	479613.5	3774259	4.65E-07	0.88YrCanc	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
35	ALL	UCART1	479652.3	3774259	5.42E-07	0.88YrCanc	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
36	ALL	UCART1	479691.2	3774259	6.25E-07	0.88YrCanc	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
37	ALL	UCART1	479730	3774259	7.02E-07	0.88YrCanc	7.02E-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
38	ALL	UCART1	479768.9	3774259	7.58E-07	0.88YrCanc	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
39	ALL	UCART1	479807.7	3774259	7.79E-07	0.88YrCanc	7.79E-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
40	ALL	UCART1	479846.6	3774259	7.61E-07	0.88YrCanc	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
41	ALL	UCART1	479885.4	3774259	7.11E-07	0.88YrCanc	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
42	ALL	UCART1	479924.3	3774259	6.41E-07	0.88YrCanc	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
43	ALL	UCART1	479147.3	3774298	1.00E-07	0.88YrCanc	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
44	ALL	UCART1	479186.1	3774298	1.10E-07	0.88YrCanc	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
45	ALL	UCART1	479225	3774298	1.20E-07	0.88YrCanc	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
46	ALL	UCART1	479263.8	3774298	1.32E-07	0.88YrCanc	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
47	ALL	UCART1	479302.7	3774298	1.46E-07	0.88YrCanc	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
48	ALL	UCART1	479341.5	3774298	1.63E-07	0.88YrCanc	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
49	ALL	UCART1	479380.4	3774298	1.82E-07	0.88YrCanc	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
50	ALL	UCART1	479419.2	3774298	2.05E-07	0.88YrCanc	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
51	ALL	UCART1	479458.1	3774298	2.32E-07	0.88YrCanc	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
52	ALL	UCART1	479496.9	3774298	2.63E-07	0.88YrCanc	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
53	ALL	UCART1	479535.8	3774298	3.00E-07	0.88YrCanc	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
54	ALL	UCART1	479574.6	3774298	3.43E-07	0.88YrCanc	3.43E-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
55	ALL	UCART1	479613.5	3774298	3.91E-07	0.88YrCanc	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
56	ALL	UCART1	479652.3	3774298	4.43E-07	0.88YrCanc	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
57	ALL	UCART1	479691.2	3774298	4.95E-07	0.88YrCanc	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
58	ALL	UCART1	479730	3774298	5.41E-07	0.88YrCanc	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
59	ALL	UCART1	479768.9	3774298	5.73E-07	0.88YrCanc	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
60	ALL	UCART1	479807.7	3774298	5.85E-07	0.88YrCanc	5.85E-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
61	ALL	UCART1	479846.6	3774298	5.76E-07	0.88YrCanc	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
62	ALL	UCART1	479885.4	3774298	5.48E-07	0.88YrCanc	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
63	ALL	UCART1	479924.3	3774298	5.06E-07	0.88YrCanc	5.06E-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
64	ALL	UCART1	479147.3	3774336	9.69E-08	0.88YrCanc	9.69E-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
65	ALL	UCART1	479186.1	3774336	1.05E-07	0.88YrCanc	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
66	ALL	UCART1	479225	3774336	1.15E-07	0.88YrCanc	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
67	ALL	UCART1	479263.8	3774336	1.26E-07	0.88YrCanc	1.26E-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
68	ALL	UCART1	479302.7	3774336	1.39E-07	0.88YrCanc	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
69	ALL	UCART1	479341.5	3774336	1.53E-07	0.88YrCanc	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
70	ALL	UCART1	479380.4	3774336	1.70E-07	0.88YrCanc	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
71	ALL	UCART1	479419.2	3774336	1.89E-07	0.88YrCanc	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
72	ALL	UCART1	479458.1	3774336	2.12E-07	0.88YrCanc	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
73	ALL	UCART1	479496.9	3774336	2.37E-07	0.88YrCanc	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
74	ALL	UCART1	479535.8	3774336	2.66E-07	0.88YrCanc	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
75	ALL	UCART1	479574.6	3774336	2.98E-07	0.88YrCanc	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
76	ALL	UCART1	479613.5	3774336	3.33E-07	0.88YrCanc	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
77	ALL	UCART1	479652.3	3774336	3.68E-07	0.88YrCanc	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
78	ALL	UCART1	479691.2	3774336	4.02E-07	0.88YrCanc	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
79	ALL	UCART1	479730	3774336	4.31E-07	0.88YrCanc	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
80	ALL	UCART1	479768.9	3774336	4.51E-07	0.88YrCanc	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
81	ALL	UCART1	479807.7	3774336	4.58E-07	0.88YrCanc	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
82	ALL	UCART1	479846.6	3774336	4.53E-07	0.88YrCanc	4.53E-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
83	ALL	UCART1	479885.4	3774336	4.36E-07	0.88YrCanc	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
84	ALL	UCART1	479924.3	3774336	4.10E-07	0.88YrCanc	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
85	ALL	UCART1	479147.3	3774375	9.33E-08	0.88YrCanc	9.33E-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
86	ALL	UCART1	479186.1	3774375	1.01E-07	0.88YrCanc	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
87	ALL	UCART1	479225	3774375	1.10E-07	0.88YrCanc	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
88	ALL	UCART1	479263.8	3774375	1.20E-07	0.88YrCanc	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
89	ALL	UCART1	479302.7	3774375	1.31E-07	0.88YrCanc	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
90	ALL	UCART1	479341.5	3774375	1.44E-07	0.88YrCanc	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

91	ALL	UCART1	479380.4	3774375	1.58E-07	0.88YrCanc	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
92	ALL	UCART1	479419.2	3774375	1.75E-07	0.88YrCanc	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
93	ALL	UCART1	479458.1	3774375	1.93E-07	0.88YrCanc	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
94	ALL	UCART1	479496.9	3774375	2.13E-07	0.88YrCanc	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
95	ALL	UCART1	479535.8	3774375	2.36E-07	0.88YrCanc	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
96	ALL	UCART1	479574.6	3774375	2.60E-07	0.88YrCanc	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
97	ALL	UCART1	479613.5	3774375	2.85E-07	0.88YrCanc	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
98	ALL	UCART1	479652.3	3774375	3.10E-07	0.88YrCanc	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
99	ALL	UCART1	479691.2	3774375	3.34E-07	0.88YrCanc	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
100	ALL	UCART1	479730	3774375	3.52E-07	0.88YrCanc	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
101	ALL	UCART1	479768.9	3774375	3.65E-07	0.88YrCanc	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
102	ALL	UCART1	479807.7	3774375	3.70E-07	0.88YrCanc	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
103	ALL	UCART1	479846.6	3774375	3.67E-07	0.88YrCanc	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
104	ALL	UCART1	479885.4	3774375	3.56E-07	0.88YrCanc	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
105	ALL	UCART1	479924.3	3774375	3.39E-07	0.88YrCanc	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
106	ALL	UCART1	479147.3	3774413	8.96E-08	0.88YrCanc	8.96E-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
107	ALL	UCART1	479186.1	3774413	9.68E-08	0.88YrCanc	9.68E-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
108	ALL	UCART1	479225	3774413	1.05E-07	0.88YrCanc	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
109	ALL	UCART1	479263.8	3774413	1.14E-07	0.88YrCanc	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
110	ALL	UCART1	479302.7	3774413	1.23E-07	0.88YrCanc	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
111	ALL	UCART1	479341.5	3774413	1.35E-07	0.88YrCanc	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
112	ALL	UCART1	479380.4	3774413	1.47E-07	0.88YrCanc	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
113	ALL	UCART1	479419.2	3774413	1.61E-07	0.88YrCanc	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
114	ALL	UCART1	479458.1	3774413	1.76E-07	0.88YrCanc	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
115	ALL	UCART1	479496.9	3774413	1.92E-07	0.88YrCanc	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
116	ALL	UCART1	479535.8	3774413	2.10E-07	0.88YrCanc	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
117	ALL	UCART1	479574.6	3774413	2.28E-07	0.88YrCanc	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
118	ALL	UCART1	479613.5	3774413	2.47E-07	0.88YrCanc	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
119	ALL	UCART1	479652.3	3774413	2.65E-07	0.88YrCanc	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
120	ALL	UCART1	479691.2	3774413	2.81E-07	0.88YrCanc	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
121	ALL	UCART1	479730	3774413	2.94E-07	0.88YrCanc	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
122	ALL	UCART1	479768.9	3774413	3.03E-07	0.88YrCanc	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
123	ALL	UCART1	479807.7	3774413	3.06E-07	0.88YrCanc	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
124	ALL	UCART1	479846.6	3774413	3.04E-07	0.88YrCanc	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
125	ALL	UCART1	479885.4	3774413	2.97E-07	0.88YrCanc	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
126	ALL	UCART1	479924.3	3774413	2.85E-07	0.88YrCanc	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
127	ALL	UCART1	479147.3	3774452	8.59E-08	0.88YrCanc	8.59E-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
128	ALL	UCART1	479186.1	3774452	9.24E-08	0.88YrCanc	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
129	ALL	UCART1	479225	3774452	9.95E-08	0.88YrCanc	9.95E-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
130	ALL	UCART1	479263.8	3774452	1.07E-07	0.88YrCanc	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
131	ALL	UCART1	479302.7	3774452	1.16E-07	0.88YrCanc	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
132	ALL	UCART1	479341.5	3774452	1.26E-07	0.88YrCanc	1.26E-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
133	ALL	UCART1	479380.4	3774452	1.36E-07	0.88YrCanc	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
134	ALL	UCART1	479419.2	3774452	1.48E-07	0.88YrCanc	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
135	ALL	UCART1	479458.1	3774452	1.60E-07	0.88YrCanc	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
136	ALL	UCART1	479496.9	3774452	1.74E-07	0.88YrCanc	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
137	ALL	UCART1	479535.8	3774452	1.88E-07	0.88YrCanc	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
138	ALL	UCART1	479574.6	3774452	2.02E-07	0.88YrCanc	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
139	ALL	UCART1	479613.5	3774452	2.16E-07	0.88YrCanc	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
140	ALL	UCART1	479652.3	3774452	2.29E-07	0.88YrCanc	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
141	ALL	UCART1	479691.2	3774452	2.41E-07	0.88YrCanc	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
142	ALL	UCART1	479730	3774452	2.50E-07	0.88YrCanc	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
143	ALL	UCART1	479768.9	3774452	2.56E-07	0.88YrCanc	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
144	ALL	UCART1	479807.7	3774452	2.59E-07	0.88YrCanc	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
145	ALL	UCART1	479846.6	3774452	2.57E-07	0.88YrCanc	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
146	ALL	UCART1	479885.4	3774452	2.52E-07	0.88YrCanc	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
147	ALL	UCART1	479924.3	3774452	2.44E-07	0.88YrCanc	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
148	ALL	UCART1	479147.3	3774491	8.22E-08	0.88YrCanc	8.22E-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
149	ALL	UCART1	479186.1	3774491	8.80E-08	0.88YrCanc	8.80E-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
150	ALL	UCART1	479225	3774491	9.44E-08	0.88YrCanc	9.44E-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
151	ALL	UCART1	479263.8	3774491	1.01E-07	0.88YrCanc	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
152	ALL	UCART1	479302.7	3774491	1.09E-07	0.88YrCanc	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
153	ALL	UCART1	479341.5	3774491	1.17E-07	0.88YrCanc	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
154	ALL	UCART1	479380.4	3774491	1.26E-07	0.88YrCanc	1.26E-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
155	ALL	UCART1	479419.2	3774491	1.36E-07	0.88YrCanc	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
156	ALL	UCART1	479458.1	3774491	1.46E-07	0.88YrCanc	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
157	ALL	UCART1	479496.9	3774491	1.57E-07	0.88YrCanc	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
158	ALL	UCART1	479535.8	3774491	1.68E-07	0.88YrCanc	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
159	ALL	UCART1	479574.6	3774491	1.79E-07	0.88YrCanc	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
160	ALL	UCART1	479613.5	3774491	1.90E-07	0.88YrCanc	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
161	ALL	UCART1	479652.3	3774491	2.00E-07	0.88YrCanc	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
162	ALL	UCART1	479691.2	3774491	2.09E-07	0.88YrCanc	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
163	ALL	UCART1	479730	3774491	2.16E-07	0.88YrCanc	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
164	ALL	UCART1	479768.9	3774491	2.20E-07	0.88YrCanc	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
165	ALL	UCART1	479807.7	3774491	2.22E-07	0.88YrCanc	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
166	ALL	UCART1	479846.6	3774491	2.21E-07	0.88YrCanc	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
167	ALL	UCART1	479885.4	3774491	2.17E-07	0.88YrCanc	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
168	ALL	UCART1	479924.3	3774491	2.11E-07	0.88YrCanc	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
169	ALL	UCART1	479147.3	3774529	7.85E-08	0.88YrCanc	7.85E-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
170	ALL	UCART1	479186.1	3774529	8.38E-08	0.88YrCanc	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
171	ALL	UCART1	479225	3774529	8.95E-08	0.88YrCanc	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
172	ALL	UCART1	479263.8	3774529	9.56E-08	0.88YrCanc	9.56E-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
173	ALL	UCART1	479302.7	3774529	1.02E-07	0.88YrCanc	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
174	ALL	UCART1	479341.5	3774529	1.10E-07	0.88YrCanc	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
175	ALL	UCART1	479380.4	3774529	1.17E-07	0.88YrCanc	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
176	ALL	UCART1	479419.2	3774529	1.25E-07	0.88YrCanc	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
177	ALL	UCART1	479458.1	3774529	1.34E-07	0.88YrCanc	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
178	ALL	UCART1	479496.9	3774529	1.43E-07	0.88YrCanc	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
179	ALL	UCART1	479535.8	3774529	1.52E-07	0.88YrCanc	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
180	ALL	UCART1	479574.6	3774529	1.60E-07	0.88YrCanc	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
181	ALL	UCART1	479613.5	3774529	1.69E-07	0.88YrCanc	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

182	ALL	UCART1	479652.3	3774529	1.76E-07	0.88YrCanc	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
183	ALL	UCART1	479691.2	3774529	1.83E-07	0.88YrCanc	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
184	ALL	UCART1	479730	3774529	1.88E-07	0.88YrCanc	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
185	ALL	UCART1	479768.9	3774529	1.91E-07	0.88YrCanc	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
186	ALL	UCART1	479807.7	3774529	1.92E-07	0.88YrCanc	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
187	ALL	UCART1	479846.6	3774529	1.92E-07	0.88YrCanc	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
188	ALL	UCART1	479885.4	3774529	1.89E-07	0.88YrCanc	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
189	ALL	UCART1	479924.3	3774529	1.84E-07	0.88YrCanc	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
190	ALL	UCART1	479147.3	3774568	7.49E-08	0.88YrCanc	7.49E-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
191	ALL	UCART1	479186.1	3774568	7.96E-08	0.88YrCanc	7.96E-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
192	ALL	UCART1	479225	3774568	8.47E-08	0.88YrCanc	8.47E-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
193	ALL	UCART1	479263.8	3774568	9.02E-08	0.88YrCanc	9.02E-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
194	ALL	UCART1	479302.7	3774568	9.60E-08	0.88YrCanc	9.60E-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
195	ALL	UCART1	479341.5	3774568	1.02E-07	0.88YrCanc	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
196	ALL	UCART1	479380.4	3774568	1.09E-07	0.88YrCanc	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
197	ALL	UCART1	479419.2	3774568	1.16E-07	0.88YrCanc	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
198	ALL	UCART1	479458.1	3774568	1.23E-07	0.88YrCanc	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
199	ALL	UCART1	479496.9	3774568	1.30E-07	0.88YrCanc	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
200	ALL	UCART1	479535.8	3774568	1.37E-07	0.88YrCanc	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
201	ALL	UCART1	479574.6	3774568	1.44E-07	0.88YrCanc	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
202	ALL	UCART1	479613.5	3774568	1.51E-07	0.88YrCanc	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
203	ALL	UCART1	479652.3	3774568	1.57E-07	0.88YrCanc	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
204	ALL	UCART1	479691.2	3774568	1.62E-07	0.88YrCanc	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
205	ALL	UCART1	479730	3774568	1.66E-07	0.88YrCanc	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
206	ALL	UCART1	479768.9	3774568	1.68E-07	0.88YrCanc	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
207	ALL	UCART1	479807.7	3774568	1.69E-07	0.88YrCanc	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
208	ALL	UCART1	479846.6	3774568	1.68E-07	0.88YrCanc	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
209	ALL	UCART1	479885.4	3774568	1.66E-07	0.88YrCanc	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
210	ALL	UCART1	479924.3	3774568	1.63E-07	0.88YrCanc	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
211	ALL	UCART1	479147.3	3774606	7.14E-08	0.88YrCanc	7.14E-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
212	ALL	UCART1	479186.1	3774606	7.57E-08	0.88YrCanc	7.57E-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
213	ALL	UCART1	479225	3774606	8.02E-08	0.88YrCanc	8.02E-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
214	ALL	UCART1	479263.8	3774606	8.50E-08	0.88YrCanc	8.50E-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
215	ALL	UCART1	479302.7	3774606	9.01E-08	0.88YrCanc	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
216	ALL	UCART1	479341.5	3774606	9.55E-08	0.88YrCanc	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
217	ALL	UCART1	479380.4	3774606	1.01E-07	0.88YrCanc	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
218	ALL	UCART1	479419.2	3774606	1.07E-07	0.88YrCanc	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
219	ALL	UCART1	479458.1	3774606	1.13E-07	0.88YrCanc	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
220	ALL	UCART1	479496.9	3774606	1.19E-07	0.88YrCanc	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
221	ALL	UCART1	479535.8	3774606	1.25E-07	0.88YrCanc	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
222	ALL	UCART1	479574.6	3774606	1.30E-07	0.88YrCanc	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
223	ALL	UCART1	479613.5	3774606	1.36E-07	0.88YrCanc	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
224	ALL	UCART1	479652.3	3774606	1.40E-07	0.88YrCanc	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
225	ALL	UCART1	479691.2	3774606	1.44E-07	0.88YrCanc	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
226	ALL	UCART1	479730	3774606	1.47E-07	0.88YrCanc	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
227	ALL	UCART1	479768.9	3774606	1.49E-07	0.88YrCanc	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
228	ALL	UCART1	479807.7	3774606	1.50E-07	0.88YrCanc	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
229	ALL	UCART1	479846.6	3774606	1.49E-07	0.88YrCanc	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
230	ALL	UCART1	479885.4	3774606	1.48E-07	0.88YrCanc	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
231	ALL	UCART1	479924.3	3774606	1.45E-07	0.88YrCanc	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
232	ALL	UCART1	479147.3	3774645	6.81E-08	0.88YrCanc	6.81E-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
233	ALL	UCART1	479186.1	3774645	7.19E-08	0.88YrCanc	7.19E-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
234	ALL	UCART1	479225	3774645	7.59E-08	0.88YrCanc	7.59E-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
235	ALL	UCART1	479263.8	3774645	8.01E-08	0.88YrCanc	8.01E-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
236	ALL	UCART1	479302.7	3774645	8.46E-08	0.88YrCanc	8.46E-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
237	ALL	UCART1	479341.5	3774645	8.92E-08	0.88YrCanc	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
238	ALL	UCART1	479380.4	3774645	9.40E-08	0.88YrCanc	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
239	ALL	UCART1	479419.2	3774645	9.90E-08	0.88YrCanc	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
240	ALL	UCART1	479458.1	3774645	1.04E-07	0.88YrCanc	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
241	ALL	UCART1	479496.9	3774645	1.09E-07	0.88YrCanc	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
242	ALL	UCART1	479535.8	3774645	1.14E-07	0.88YrCanc	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
243	ALL	UCART1	479574.6	3774645	1.18E-07	0.88YrCanc	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
244	ALL	UCART1	479613.5	3774645	1.23E-07	0.88YrCanc	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
245	ALL	UCART1	479652.3	3774645	1.26E-07	0.88YrCanc	1.26E-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
246	ALL	UCART1	479691.2	3774645	1.30E-07	0.88YrCanc	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
247	ALL	UCART1	479730	3774645	1.32E-07	0.88YrCanc	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
248	ALL	UCART1	479768.9	3774645	1.33E-07	0.88YrCanc	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
249	ALL	UCART1	479807.7	3774645	1.34E-07	0.88YrCanc	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
250	ALL	UCART1	479846.6	3774645	1.34E-07	0.88YrCanc	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
251	ALL	UCART1	479885.4	3774645	1.32E-07	0.88YrCanc	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
252	ALL	UCART1	479924.3	3774645	1.30E-07	0.88YrCanc	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
253	ALL	UCART1	479147.3	3774684	6.49E-08	0.88YrCanc	6.49E-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
254	ALL	UCART1	479186.1	3774684	6.83E-08	0.88YrCanc	6.83E-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
255	ALL	UCART1	479225	3774684	7.19E-08	0.88YrCanc	7.19E-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
256	ALL	UCART1	479263.8	3774684	7.56E-08	0.88YrCanc	7.56E-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
257	ALL	UCART1	479302.7	3774684	7.95E-08	0.88YrCanc	7.95E-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
258	ALL	UCART1	479341.5	3774684	8.35E-08	0.88YrCanc	8.35E-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
259	ALL	UCART1	479380.4	3774684	8.77E-08	0.88YrCanc	8.77E-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
260	ALL	UCART1	479419.2	3774684	9.19E-08	0.88YrCanc	9.19E-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
261	ALL	UCART1	479458.1	3774684	9.61E-08	0.88YrCanc	9.61E-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
262	ALL	UCART1	479496.9	3774684	1.00E-07	0.88YrCanc	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
263	ALL	UCART1	479535.8	3774684	1.04E-07	0.88YrCanc	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
264	ALL	UCART1	479574.6	3774684	1.08E-07	0.88YrCanc	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
265	ALL	UCART1	479613.5	3774684	1.12E-07	0.88YrCanc	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
266	ALL	UCART1	479652.3	3774684	1.15E-07	0.88YrCanc	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
267	ALL	UCART1	479691.2	3774684	1.17E-07	0.88YrCanc	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
268	ALL	UCART1	479730	3774684	1.19E-07	0.88YrCanc	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
269	ALL	UCART1	479768.9	3774684	1.20E-07	0.88YrCanc	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
270	ALL	UCART1	479807.7	3774684	1.21E-07	0.88YrCanc	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
271	ALL	UCART1	479846.6	3774684	1.20E-07	0.88YrCanc	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
272	ALL	UCART1	479885.4	3774684	1.19E-07	0.88YrCanc	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

273	ALL	UCART1	479924.3	3774684	1.18E-07	0.88YrCanc	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
274	ALL	UCART1	479147.3	3774722	6.18E-08	0.88YrCanc	6.18E-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
275	ALL	UCART1	479186.1	3774722	6.49E-08	0.88YrCanc	6.49E-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
276	ALL	UCART1	479225	3774722	6.81E-08	0.88YrCanc	6.81E-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
277	ALL	UCART1	479263.8	3774722	7.14E-08	0.88YrCanc	7.14E-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
278	ALL	UCART1	479302.7	3774722	7.48E-08	0.88YrCanc	7.48E-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
279	ALL	UCART1	479341.5	3774722	7.83E-08	0.88YrCanc	7.83E-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
280	ALL	UCART1	479380.4	3774722	8.19E-08	0.88YrCanc	8.19E-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
281	ALL	UCART1	479419.2	3774722	8.55E-08	0.88YrCanc	8.55E-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
282	ALL	UCART1	479458.1	3774722	8.90E-08	0.88YrCanc	8.90E-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
283	ALL	UCART1	479496.9	3774722	9.26E-08	0.88YrCanc	9.26E-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
284	ALL	UCART1	479535.8	3774722	9.59E-08	0.88YrCanc	9.59E-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
285	ALL	UCART1	479574.6	3774722	9.91E-08	0.88YrCanc	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
286	ALL	UCART1	479613.5	3774722	1.02E-07	0.88YrCanc	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
287	ALL	UCART1	479652.3	3774722	1.04E-07	0.88YrCanc	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
288	ALL	UCART1	479691.2	3774722	1.06E-07	0.88YrCanc	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
289	ALL	UCART1	479730	3774722	1.08E-07	0.88YrCanc	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
290	ALL	UCART1	479768.9	3774722	1.09E-07	0.88YrCanc	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
291	ALL	UCART1	479807.7	3774722	1.09E-07	0.88YrCanc	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
292	ALL	UCART1	479846.6	3774722	1.09E-07	0.88YrCanc	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
293	ALL	UCART1	479885.4	3774722	1.08E-07	0.88YrCanc	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
294	ALL	UCART1	479924.3	3774722	1.07E-07	0.88YrCanc	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
295	ALL	UCART1	479147.3	3774761	5.89E-08	0.88YrCanc	5.89E-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
296	ALL	UCART1	479186.1	3774761	6.17E-08	0.88YrCanc	6.17E-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
297	ALL	UCART1	479225	3774761	6.45E-08	0.88YrCanc	6.45E-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
298	ALL	UCART1	479263.8	3774761	6.74E-08	0.88YrCanc	6.74E-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
299	ALL	UCART1	479302.7	3774761	7.04E-08	0.88YrCanc	7.04E-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
300	ALL	UCART1	479341.5	3774761	7.35E-08	0.88YrCanc	7.35E-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
301	ALL	UCART1	479380.4	3774761	7.66E-08	0.88YrCanc	7.66E-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
302	ALL	UCART1	479419.2	3774761	7.97E-08	0.88YrCanc	7.97E-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
303	ALL	UCART1	479458.1	3774761	8.27E-08	0.88YrCanc	8.27E-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
304	ALL	UCART1	479496.9	3774761	8.57E-08	0.88YrCanc	8.57E-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
305	ALL	UCART1	479535.8	3774761	8.85E-08	0.88YrCanc	8.85E-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
306	ALL	UCART1	479574.6	3774761	9.11E-08	0.88YrCanc	9.11E-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
307	ALL	UCART1	479613.5	3774761	9.35E-08	0.88YrCanc	9.35E-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
308	ALL	UCART1	479652.3	3774761	9.55E-08	0.88YrCanc	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
309	ALL	UCART1	479691.2	3774761	9.72E-08	0.88YrCanc	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
310	ALL	UCART1	479730	3774761	9.84E-08	0.88YrCanc	9.84E-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
311	ALL	UCART1	479768.9	3774761	9.92E-08	0.88YrCanc	9.92E-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
312	ALL	UCART1	479807.7	3774761	9.95E-08	0.88YrCanc	9.95E-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
313	ALL	UCART1	479846.6	3774761	9.93E-08	0.88YrCanc	9.93E-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
314	ALL	UCART1	479885.4	3774761	9.87E-08	0.88YrCanc	9.87E-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
315	ALL	UCART1	479924.3	3774761	9.76E-08	0.88YrCanc	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
316	ALL	UCART1	479147.3	3774800	5.62E-08	0.88YrCanc	5.62E-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
317	ALL	UCART1	479186.1	3774800	5.86E-08	0.88YrCanc	5.86E-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
318	ALL	UCART1	479225	3774800	6.11E-08	0.88YrCanc	6.11E-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
319	ALL	UCART1	479263.8	3774800	6.37E-08	0.88YrCanc	6.37E-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
320	ALL	UCART1	479302.7	3774800	6.64E-08	0.88YrCanc	6.64E-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
321	ALL	UCART1	479341.5	3774800	6.91E-08	0.88YrCanc	6.91E-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
322	ALL	UCART1	479380.4	3774800	7.18E-08	0.88YrCanc	7.18E-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
323	ALL	UCART1	479419.2	3774800	7.44E-08	0.88YrCanc	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
324	ALL	UCART1	479458.1	3774800	7.70E-08	0.88YrCanc	7.70E-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
325	ALL	UCART1	479496.9	3774800	7.96E-08	0.88YrCanc	7.96E-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
326	ALL	UCART1	479535.8	3774800	8.20E-08	0.88YrCanc	8.20E-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
327	ALL	UCART1	479574.6	3774800	8.41E-08	0.88YrCanc	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
328	ALL	UCART1	479613.5	3774800	8.61E-08	0.88YrCanc	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
329	ALL	UCART1	479652.3	3774800	8.78E-08	0.88YrCanc	8.78E-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
330	ALL	UCART1	479691.2	3774800	8.92E-08	0.88YrCanc	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
331	ALL	UCART1	479730	3774800	9.02E-08	0.88YrCanc	9.02E-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
332	ALL	UCART1	479768.9	3774800	9.09E-08	0.88YrCanc	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
333	ALL	UCART1	479807.7	3774800	9.11E-08	0.88YrCanc	9.11E-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
334	ALL	UCART1	479846.6	3774800	9.10E-08	0.88YrCanc	9.10E-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
335	ALL	UCART1	479885.4	3774800	9.04E-08	0.88YrCanc	9.04E-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
336	ALL	UCART1	479924.3	3774800	8.95E-08	0.88YrCanc	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
337	ALL	UCART1	479147.3	3774838	5.35E-08	0.88YrCanc	5.35E-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
338	ALL	UCART1	479186.1	3774838	5.57E-08	0.88YrCanc	5.57E-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
339	ALL	UCART1	479225	3774838	5.80E-08	0.88YrCanc	5.80E-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
340	ALL	UCART1	479263.8	3774838	6.03E-08	0.88YrCanc	6.03E-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
341	ALL	UCART1	479302.7	3774838	6.26E-08	0.88YrCanc	6.26E-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
342	ALL	UCART1	479341.5	3774838	6.50E-08	0.88YrCanc	6.50E-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
343	ALL	UCART1	479380.4	3774838	6.73E-08	0.88YrCanc	6.73E-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
344	ALL	UCART1	479419.2	3774838	6.97E-08	0.88YrCanc	6.97E-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
345	ALL	UCART1	479458.1	3774838	7.19E-08	0.88YrCanc	7.19E-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
346	ALL	UCART1	479496.9	3774838	7.41E-08	0.88YrCanc	7.41E-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
347	ALL	UCART1	479535.8	3774838	7.61E-08	0.88YrCanc	7.61E-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
348	ALL	UCART1	479574.6	3774838	7.80E-08	0.88YrCanc	7.80E-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
349	ALL	UCART1	479613.5	3774838	7.96E-08	0.88YrCanc	7.96E-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
350	ALL	UCART1	479652.3	3774838	8.10E-08	0.88YrCanc	8.10E-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
351	ALL	UCART1	479691.2	3774838	8.22E-08	0.88YrCanc	8.22E-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
352	ALL	UCART1	479730	3774838	8.31E-08	0.88YrCanc	8.31E-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
353	ALL	UCART1	479768.9	3774838	8.36E-08	0.88YrCanc	8.36E-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
354	ALL	UCART1	479807.7	3774838	8.38E-08	0.88YrCanc	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
355	ALL	UCART1	479846.6	3774838	8.37E-08	0.88YrCanc	8.37E-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
356	ALL	UCART1	479885.4	3774838	8.32E-08	0.88YrCanc	8.32E-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
357	ALL	UCART1	479924.3	3774838	8.25E-08	0.88YrCanc	8.25E-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
358	ALL	UCART1	479147.3	3774877	5.11E-08	0.88YrCanc	5.11E-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
359	ALL	UCART1	479186.1	3774877	5.31E-08	0.88YrCanc	5.31E-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
360	ALL	UCART1	479225	3774877	5.51E-08	0.88YrCanc	5.51E-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
361	ALL	UCART1	479263.8	3774877	5.71E-08	0.88YrCanc	5.71E-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
362	ALL	UCART1	479302.7	3774877	5.92E-08	0.88YrCanc	5.92E-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
363	ALL	UCART1	479341.5	3774877	6.13E-08	0.88YrCanc	6.13E-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

364	ALL	UCART1	479380.4	3774877	6.33E-08	0.88YrCanc	6.33E-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
365	ALL	UCART1	479419.2	3774877	6.53E-08	0.88YrCanc	6.53E-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
366	ALL	UCART1	479458.1	3774877	6.73E-08	0.88YrCanc	6.73E-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
367	ALL	UCART1	479496.9	3774877	6.91E-08	0.88YrCanc	6.91E-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
368	ALL	UCART1	479535.8	3774877	7.09E-08	0.88YrCanc	7.09E-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
369	ALL	UCART1	479574.6	3774877	7.25E-08	0.88YrCanc	7.25E-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
370	ALL	UCART1	479613.5	3774877	7.39E-08	0.88YrCanc	7.39E-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
371	ALL	UCART1	479652.3	3774877	7.51E-08	0.88YrCanc	7.51E-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
372	ALL	UCART1	479691.2	3774877	7.61E-08	0.88YrCanc	7.61E-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
373	ALL	UCART1	479730	3774877	7.68E-08	0.88YrCanc	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
374	ALL	UCART1	479768.9	3774877	7.72E-08	0.88YrCanc	7.72E-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
375	ALL	UCART1	479807.7	3774877	7.74E-08	0.88YrCanc	7.74E-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
376	ALL	UCART1	479846.6	3774877	7.73E-08	0.88YrCanc	7.73E-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
377	ALL	UCART1	479885.4	3774877	7.69E-08	0.88YrCanc	7.69E-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
378	ALL	UCART1	479924.3	3774877	7.63E-08	0.88YrCanc	7.63E-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
379	ALL	UCART1	479147.3	3774915	4.88E-08	0.88YrCanc	4.88E-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
380	ALL	UCART1	479186.1	3774915	5.05E-08	0.88YrCanc	5.05E-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
381	ALL	UCART1	479225	3774915	5.23E-08	0.88YrCanc	5.23E-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
382	ALL	UCART1	479263.8	3774915	5.42E-08	0.88YrCanc	5.42E-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
383	ALL	UCART1	479302.7	3774915	5.60E-08	0.88YrCanc	5.60E-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
384	ALL	UCART1	479341.5	3774915	5.78E-08	0.88YrCanc	5.78E-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
385	ALL	UCART1	479380.4	3774915	5.96E-08	0.88YrCanc	5.96E-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
386	ALL	UCART1	479419.2	3774915	6.14E-08	0.88YrCanc	6.14E-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
387	ALL	UCART1	479458.1	3774915	6.31E-08	0.88YrCanc	6.31E-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
388	ALL	UCART1	479496.9	3774915	6.47E-08	0.88YrCanc	6.47E-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
389	ALL	UCART1	479535.8	3774915	6.62E-08	0.88YrCanc	6.62E-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
390	ALL	UCART1	479574.6	3774915	6.75E-08	0.88YrCanc	6.75E-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
391	ALL	UCART1	479613.5	3774915	6.88E-08	0.88YrCanc	6.88E-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
392	ALL	UCART1	479652.3	3774915	6.98E-08	0.88YrCanc	6.98E-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
393	ALL	UCART1	479691.2	3774915	7.06E-08	0.88YrCanc	7.06E-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
394	ALL	UCART1	479730	3774915	7.12E-08	0.88YrCanc	7.12E-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
395	ALL	UCART1	479768.9	3774915	7.16E-08	0.88YrCanc	7.16E-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
396	ALL	UCART1	479807.7	3774915	7.17E-08	0.88YrCanc	7.17E-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
397	ALL	UCART1	479846.6	3774915	7.17E-08	0.88YrCanc	7.17E-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
398	ALL	UCART1	479885.4	3774915	7.13E-08	0.88YrCanc	7.13E-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
399	ALL	UCART1	479924.3	3774915	7.08E-08	0.88YrCanc	7.08E-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
400	ALL	UCART1	479147.3	3774954	4.66E-08	0.88YrCanc	4.66E-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
401	ALL	UCART1	479186.1	3774954	4.82E-08	0.88YrCanc	4.82E-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
402	ALL	UCART1	479225	3774954	4.98E-08	0.88YrCanc	4.98E-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
403	ALL	UCART1	479263.8	3774954	5.14E-08	0.88YrCanc	5.14E-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
404	ALL	UCART1	479302.7	3774954	5.30E-08	0.88YrCanc	5.30E-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
405	ALL	UCART1	479341.5	3774954	5.46E-08	0.88YrCanc	5.46E-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
406	ALL	UCART1	479380.4	3774954	5.62E-08	0.88YrCanc	5.62E-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
407	ALL	UCART1	479419.2	3774954	5.78E-08	0.88YrCanc	5.78E-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
408	ALL	UCART1	479458.1	3774954	5.93E-08	0.88YrCanc	5.93E-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
409	ALL	UCART1	479496.9	3774954	6.07E-08	0.88YrCanc	6.07E-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
410	ALL	UCART1	479535.8	3774954	6.20E-08	0.88YrCanc	6.20E-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
411	ALL	UCART1	479574.6	3774954	6.31E-08	0.88YrCanc	6.31E-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
412	ALL	UCART1	479613.5	3774954	6.42E-08	0.88YrCanc	6.42E-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
413	ALL	UCART1	479652.3	3774954	6.50E-08	0.88YrCanc	6.50E-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
414	ALL	UCART1	479691.2	3774954	6.58E-08	0.88YrCanc	6.58E-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
415	ALL	UCART1	479730	3774954	6.63E-08	0.88YrCanc	6.63E-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
416	ALL	UCART1	479768.9	3774954	6.66E-08	0.88YrCanc	6.66E-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
417	ALL	UCART1	479807.7	3774954	6.67E-08	0.88YrCanc	6.67E-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
418	ALL	UCART1	479846.6	3774954	6.67E-08	0.88YrCanc	6.67E-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
419	ALL	UCART1	479885.4	3774954	6.64E-08	0.88YrCanc	6.64E-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
420	ALL	UCART1	479924.3	3774954	6.59E-08	0.88YrCanc	6.59E-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
421	ALL	UCART1	479147.3	3774993	4.45E-08	0.88YrCanc	4.45E-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
422	ALL	UCART1	479186.1	3774993	4.59E-08	0.88YrCanc	4.59E-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
423	ALL	UCART1	479225	3774993	4.74E-08	0.88YrCanc	4.74E-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
424	ALL	UCART1	479263.8	3774993	4.88E-08	0.88YrCanc	4.88E-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
425	ALL	UCART1	479302.7	3774993	5.03E-08	0.88YrCanc	5.03E-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
426	ALL	UCART1	479341.5	3774993	5.17E-08	0.88YrCanc	5.17E-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
427	ALL	UCART1	479380.4	3774993	5.31E-08	0.88YrCanc	5.31E-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
428	ALL	UCART1	479419.2	3774993	5.45E-08	0.88YrCanc	5.45E-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
429	ALL	UCART1	479458.1	3774993	5.58E-08	0.88YrCanc	5.58E-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
430	ALL	UCART1	479496.9	3774993	5.70E-08	0.88YrCanc	5.70E-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
431	ALL	UCART1	479535.8	3774993	5.81E-08	0.88YrCanc	5.81E-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
432	ALL	UCART1	479574.6	3774993	5.92E-08	0.88YrCanc	5.92E-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
433	ALL	UCART1	479613.5	3774993	6.01E-08	0.88YrCanc	6.01E-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
434	ALL	UCART1	479652.3	3774993	6.08E-08	0.88YrCanc	6.08E-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
435	ALL	UCART1	479691.2	3774993	6.14E-08	0.88YrCanc	6.14E-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
436	ALL	UCART1	479730	3774993	6.19E-08	0.88YrCanc	6.19E-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
437	ALL	UCART1	479768.9	3774993	6.21E-08	0.88YrCanc	6.21E-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
438	ALL	UCART1	479807.7	3774993	6.22E-08	0.88YrCanc	6.22E-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
439	ALL	UCART1	479846.6	3774993	6.22E-08	0.88YrCanc	6.22E-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
440	ALL	UCART1	479885.4	3774993	6.19E-08	0.88YrCanc	6.19E-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
441	ALL	UCART1	479924.3	3774993	6.15E-08	0.88YrCanc	6.15E-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
442	ALL	UCART2	479947.2	3774413	2.77E-07	0.88YrCanc	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
443	ALL	UCART2	480027.6	3774413	2.42E-07	0.88YrCanc	2.42E-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
444	ALL	UCART2	480108	3774413	2.03E-07	0.88YrCanc	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
445	ALL	UCART2	480188.4	3774413	1.69E-07	0.88YrCanc	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
446	ALL	UCART2	480268.8	3774413	1.42E-07	0.88YrCanc	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
447	ALL	UCART2	480349.3	3774413	1.17E-07	0.88YrCanc	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
448	ALL	UCART2	480429.7	3774413	1.02E-07	0.88YrCanc	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
449	ALL	UCART2	480510.1	3774413	8.76E-08	0.88YrCanc	8.76E-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
450	ALL	UCART2	480590.5	3774413	7.68E-08	0.88YrCanc	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
451	ALL	UCART2	480670.9	3774413	6.83E-08	0.88YrCanc	6.83E-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
452	ALL	UCART2	480751.4	3774413	5.92E-08	0.88YrCanc	5.92E-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
453	ALL	UCART2	480831.8	3774413	5.48E-08	0.88YrCanc	5.48E-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
454	ALL	UCART2	480912.2	3774413	4.93E-08	0.88YrCanc	4.93E-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

455	ALL	UCART2	480992.6	3774413	4.44E-08	0.88YrCanc	4.44E-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
456	ALL	UCART2	481073	3774413	4.01E-08	0.88YrCanc	4.01E-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
457	ALL	UCART2	481153.5	3774413	3.71E-08	0.88YrCanc	3.71E-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
458	ALL	UCART2	481233.9	3774413	3.41E-08	0.88YrCanc	3.41E-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
459	ALL	UCART2	481314.3	3774413	3.18E-08	0.88YrCanc	3.18E-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
460	ALL	UCART2	481394.7	3774413	2.98E-08	0.88YrCanc	2.98E-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
461	ALL	UCART2	481475.1	3774413	2.74E-08	0.88YrCanc	2.74E-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
462	ALL	UCART2	481555.6	3774413	2.66E-08	0.88YrCanc	2.66E-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
463	ALL	UCART2	479947.2	3774442	2.47E-07	0.88YrCanc	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
464	ALL	UCART2	480027.6	3774442	2.19E-07	0.88YrCanc	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
465	ALL	UCART2	480108	3774442	1.82E-07	0.88YrCanc	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
466	ALL	UCART2	480188.4	3774442	1.55E-07	0.88YrCanc	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
467	ALL	UCART2	480268.8	3774442	1.33E-07	0.88YrCanc	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
468	ALL	UCART2	480349.3	3774442	1.11E-07	0.88YrCanc	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
469	ALL	UCART2	480429.7	3774442	9.50E-08	0.88YrCanc	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
470	ALL	UCART2	480510.1	3774442	8.30E-08	0.88YrCanc	8.30E-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
471	ALL	UCART2	480590.5	3774442	7.32E-08	0.88YrCanc	7.32E-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
472	ALL	UCART2	480670.9	3774442	6.43E-08	0.88YrCanc	6.43E-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
473	ALL	UCART2	480751.4	3774442	5.65E-08	0.88YrCanc	5.65E-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
474	ALL	UCART2	480831.8	3774442	5.12E-08	0.88YrCanc	5.12E-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
475	ALL	UCART2	480912.2	3774442	4.64E-08	0.88YrCanc	4.64E-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
476	ALL	UCART2	480992.6	3774442	4.21E-08	0.88YrCanc	4.21E-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
477	ALL	UCART2	481073	3774442	3.84E-08	0.88YrCanc	3.84E-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
478	ALL	UCART2	481153.5	3774442	3.56E-08	0.88YrCanc	3.56E-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
479	ALL	UCART2	481233.9	3774442	3.28E-08	0.88YrCanc	3.28E-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
480	ALL	UCART2	481314.3	3774442	3.05E-08	0.88YrCanc	3.05E-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
481	ALL	UCART2	481394.7	3774442	2.83E-08	0.88YrCanc	2.83E-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
482	ALL	UCART2	481475.1	3774442	2.64E-08	0.88YrCanc	2.64E-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
483	ALL	UCART2	481555.6	3774442	2.55E-08	0.88YrCanc	2.55E-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
484	ALL	UCART2	479947.2	3774471	2.21E-07	0.88YrCanc	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
485	ALL	UCART2	480027.6	3774471	1.99E-07	0.88YrCanc	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
486	ALL	UCART2	480108	3774471	1.65E-07	0.88YrCanc	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
487	ALL	UCART2	480188.4	3774471	1.43E-07	0.88YrCanc	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
488	ALL	UCART2	480268.8	3774471	1.25E-07	0.88YrCanc	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
489	ALL	UCART2	480349.3	3774471	1.05E-07	0.88YrCanc	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
490	ALL	UCART2	480429.7	3774471	9.08E-08	0.88YrCanc	9.08E-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
491	ALL	UCART2	480510.1	3774471	7.93E-08	0.88YrCanc	7.93E-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
492	ALL	UCART2	480590.5	3774471	6.97E-08	0.88YrCanc	6.97E-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
493	ALL	UCART2	480670.9	3774471	6.03E-08	0.88YrCanc	6.03E-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
494	ALL	UCART2	480751.4	3774471	5.44E-08	0.88YrCanc	5.44E-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
495	ALL	UCART2	480831.8	3774471	4.93E-08	0.88YrCanc	4.93E-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
496	ALL	UCART2	480912.2	3774471	4.48E-08	0.88YrCanc	4.48E-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
497	ALL	UCART2	480992.6	3774471	4.08E-08	0.88YrCanc	4.08E-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
498	ALL	UCART2	481073	3774471	3.71E-08	0.88YrCanc	3.71E-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
499	ALL	UCART2	481153.5	3774471	3.42E-08	0.88YrCanc	3.42E-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
500	ALL	UCART2	481233.9	3774471	3.12E-08	0.88YrCanc	3.12E-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
501	ALL	UCART2	481314.3	3774471	2.92E-08	0.88YrCanc	2.92E-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
502	ALL	UCART2	481394.7	3774471	2.74E-08	0.88YrCanc	2.74E-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
503	ALL	UCART2	481475.1	3774471	2.55E-08	0.88YrCanc	2.55E-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
504	ALL	UCART2	481555.6	3774471	2.44E-08	0.88YrCanc	2.44E-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
505	ALL	UCART2	479947.2	3774500	2.00E-07	0.88YrCanc	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
506	ALL	UCART2	480027.6	3774500	1.81E-07	0.88YrCanc	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
507	ALL	UCART2	480108	3774500	1.54E-07	0.88YrCanc	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
508	ALL	UCART2	480188.4	3774500	1.34E-07	0.88YrCanc	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
509	ALL	UCART2	480268.8	3774500	1.17E-07	0.88YrCanc	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
510	ALL	UCART2	480349.3	3774500	9.97E-08	0.88YrCanc	9.97E-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
511	ALL	UCART2	480429.7	3774500	8.67E-08	0.88YrCanc	8.67E-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
512	ALL	UCART2	480510.1	3774500	7.62E-08	0.88YrCanc	7.62E-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
513	ALL	UCART2	480590.5	3774500	6.73E-08	0.88YrCanc	6.73E-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
514	ALL	UCART2	480670.9	3774500	5.79E-08	0.88YrCanc	5.79E-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
515	ALL	UCART2	480751.4	3774500	5.24E-08	0.88YrCanc	5.24E-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
516	ALL	UCART2	480831.8	3774500	4.73E-08	0.88YrCanc	4.73E-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
517	ALL	UCART2	480912.2	3774500	4.28E-08	0.88YrCanc	4.28E-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
518	ALL	UCART2	480992.6	3774500	3.89E-08	0.88YrCanc	3.89E-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
519	ALL	UCART2	481073	3774500	3.56E-08	0.88YrCanc	3.56E-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
520	ALL	UCART2	481153.5	3774500	3.29E-08	0.88YrCanc	3.29E-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
521	ALL	UCART2	481233.9	3774500	3.02E-08	0.88YrCanc	3.02E-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
522	ALL	UCART2	481314.3	3774500	2.81E-08	0.88YrCanc	2.81E-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
523	ALL	UCART2	481394.7	3774500	2.62E-08	0.88YrCanc	2.62E-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
524	ALL	UCART2	481475.1	3774500	2.47E-08	0.88YrCanc	2.47E-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
525	ALL	UCART2	481555.6	3774500	2.28E-08	0.88YrCanc	2.28E-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
526	ALL	UCART2	479947.2	3774529	1.81E-07	0.88YrCanc	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
527	ALL	UCART2	480027.6	3774529	1.66E-07	0.88YrCanc	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
528	ALL	UCART2	480108	3774529	1.41E-07	0.88YrCanc	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
529	ALL	UCART2	480188.4	3774529	1.25E-07	0.88YrCanc	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
530	ALL	UCART2	480268.8	3774529	1.09E-07	0.88YrCanc	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
531	ALL	UCART2	480349.3	3774529	9.45E-08	0.88YrCanc	9.45E-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
532	ALL	UCART2	480429.7	3774529	8.25E-08	0.88YrCanc	8.25E-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
533	ALL	UCART2	480510.1	3774529	7.28E-08	0.88YrCanc	7.28E-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
534	ALL	UCART2	480590.5	3774529	6.47E-08	0.88YrCanc	6.47E-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
535	ALL	UCART2	480670.9	3774529	5.57E-08	0.88YrCanc	5.57E-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
536	ALL	UCART2	480751.4	3774529	5.03E-08	0.88YrCanc	5.03E-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
537	ALL	UCART2	480831.8	3774529	4.52E-08	0.88YrCanc	4.52E-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
538	ALL	UCART2	480912.2	3774529	4.10E-08	0.88YrCanc	4.10E-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
539	ALL	UCART2	480992.6	3774529	3.74E-08	0.88YrCanc	3.74E-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
540	ALL	UCART2	481073	3774529	3.43E-08	0.88YrCanc	3.43E-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
541	ALL	UCART2	481153.5	3774529	3.18E-08	0.88YrCanc	3.18E-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
542	ALL	UCART2	481233.9	3774529	2.94E-08	0.88YrCanc	2.94E-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
543	ALL	UCART2	481314.3	3774529	2.70E-08	0.88YrCanc	2.70E-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
544	ALL	UCART2	481394.7	3774529	2.52E-08	0.88YrCanc	2.52E-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
545	ALL	UCART2	481475.1	3774529	2.37E-08	0.88YrCanc	2.37E-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

546	ALL	UCART2	481555.6	3774529	2.21E-08	0.88YrCanc	2.21E-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
547	ALL	UCART2	479947.2	3774558	1.65E-07	0.88YrCanc	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
548	ALL	UCART2	480027.6	3774558	1.53E-07	0.88YrCanc	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
549	ALL	UCART2	480108	3774558	1.33E-07	0.88YrCanc	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
550	ALL	UCART2	480188.4	3774558	1.16E-07	0.88YrCanc	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
551	ALL	UCART2	480268.8	3774558	1.02E-07	0.88YrCanc	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
552	ALL	UCART2	480349.3	3774558	8.97E-08	0.88YrCanc	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
553	ALL	UCART2	480429.7	3774558	7.89E-08	0.88YrCanc	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
554	ALL	UCART2	480510.1	3774558	6.97E-08	0.88YrCanc	6.97E-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
555	ALL	UCART2	480590.5	3774558	6.21E-08	0.88YrCanc	6.21E-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
556	ALL	UCART2	480670.9	3774558	5.35E-08	0.88YrCanc	5.35E-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
557	ALL	UCART2	480751.4	3774558	4.84E-08	0.88YrCanc	4.84E-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
558	ALL	UCART2	480831.8	3774558	4.39E-08	0.88YrCanc	4.39E-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
559	ALL	UCART2	480912.2	3774558	3.98E-08	0.88YrCanc	3.98E-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
560	ALL	UCART2	480992.6	3774558	3.63E-08	0.88YrCanc	3.63E-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
561	ALL	UCART2	481073	3774558	3.31E-08	0.88YrCanc	3.31E-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
562	ALL	UCART2	481153.5	3774558	3.05E-08	0.88YrCanc	3.05E-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
563	ALL	UCART2	481233.9	3774558	2.81E-08	0.88YrCanc	2.81E-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
564	ALL	UCART2	481314.3	3774558	2.61E-08	0.88YrCanc	2.61E-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
565	ALL	UCART2	481394.7	3774558	2.43E-08	0.88YrCanc	2.43E-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
566	ALL	UCART2	481475.1	3774558	2.29E-08	0.88YrCanc	2.29E-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
567	ALL	UCART2	481555.6	3774558	2.16E-08	0.88YrCanc	2.16E-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
568	ALL	UCART2	479947.2	3774588	1.51E-07	0.88YrCanc	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
569	ALL	UCART2	480027.6	3774588	1.41E-07	0.88YrCanc	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
570	ALL	UCART2	480108	3774588	1.25E-07	0.88YrCanc	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
571	ALL	UCART2	480188.4	3774588	1.09E-07	0.88YrCanc	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
572	ALL	UCART2	480268.8	3774588	9.66E-08	0.88YrCanc	9.66E-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
573	ALL	UCART2	480349.3	3774588	8.52E-08	0.88YrCanc	8.52E-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
574	ALL	UCART2	480429.7	3774588	7.56E-08	0.88YrCanc	7.56E-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
575	ALL	UCART2	480510.1	3774588	6.68E-08	0.88YrCanc	6.68E-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
576	ALL	UCART2	480590.5	3774588	5.99E-08	0.88YrCanc	5.99E-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
577	ALL	UCART2	480670.9	3774588	5.15E-08	0.88YrCanc	5.15E-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
578	ALL	UCART2	480751.4	3774588	4.65E-08	0.88YrCanc	4.65E-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
579	ALL	UCART2	480831.8	3774588	4.23E-08	0.88YrCanc	4.23E-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
580	ALL	UCART2	480912.2	3774588	3.86E-08	0.88YrCanc	3.86E-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
581	ALL	UCART2	480992.6	3774588	3.51E-08	0.88YrCanc	3.51E-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
582	ALL	UCART2	481073	3774588	3.19E-08	0.88YrCanc	3.19E-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
583	ALL	UCART2	481153.5	3774588	2.94E-08	0.88YrCanc	2.94E-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
584	ALL	UCART2	481233.9	3774588	2.71E-08	0.88YrCanc	2.71E-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
585	ALL	UCART2	481314.3	3774588	2.53E-08	0.88YrCanc	2.53E-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
586	ALL	UCART2	481394.7	3774588	2.36E-08	0.88YrCanc	2.36E-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
587	ALL	UCART2	481475.1	3774588	2.21E-08	0.88YrCanc	2.21E-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
588	ALL	UCART2	481555.6	3774588	2.08E-08	0.88YrCanc	2.08E-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
589	ALL	UCART2	479947.2	3774617	1.39E-07	0.88YrCanc	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
590	ALL	UCART2	480027.6	3774617	1.30E-07	0.88YrCanc	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
591	ALL	UCART2	480108	3774617	1.17E-07	0.88YrCanc	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
592	ALL	UCART2	480188.4	3774617	1.03E-07	0.88YrCanc	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
593	ALL	UCART2	480268.8	3774617	9.10E-08	0.88YrCanc	9.10E-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
594	ALL	UCART2	480349.3	3774617	8.09E-08	0.88YrCanc	8.09E-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
595	ALL	UCART2	480429.7	3774617	7.22E-08	0.88YrCanc	7.22E-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
596	ALL	UCART2	480510.1	3774617	6.42E-08	0.88YrCanc	6.42E-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
597	ALL	UCART2	480590.5	3774617	5.76E-08	0.88YrCanc	5.76E-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
598	ALL	UCART2	480670.9	3774617	4.97E-08	0.88YrCanc	4.97E-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
599	ALL	UCART2	480751.4	3774617	4.49E-08	0.88YrCanc	4.49E-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
600	ALL	UCART2	480831.8	3774617	4.08E-08	0.88YrCanc	4.08E-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
601	ALL	UCART2	480912.2	3774617	3.70E-08	0.88YrCanc	3.70E-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
602	ALL	UCART2	480992.6	3774617	3.39E-08	0.88YrCanc	3.39E-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
603	ALL	UCART2	481073	3774617	3.08E-08	0.88YrCanc	3.08E-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
604	ALL	UCART2	481153.5	3774617	2.84E-08	0.88YrCanc	2.84E-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
605	ALL	UCART2	481233.9	3774617	2.61E-08	0.88YrCanc	2.61E-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
606	ALL	UCART2	481314.3	3774617	2.44E-08	0.88YrCanc	2.44E-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
607	ALL	UCART2	481394.7	3774617	2.28E-08	0.88YrCanc	2.28E-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
608	ALL	UCART2	481475.1	3774617	2.14E-08	0.88YrCanc	2.14E-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
609	ALL	UCART2	481555.6	3774617	2.02E-08	0.88YrCanc	2.02E-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
610	ALL	UCART2	479947.2	3774646	1.28E-07	0.88YrCanc	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
611	ALL	UCART2	480027.6	3774646	1.21E-07	0.88YrCanc	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
612	ALL	UCART2	480108	3774646	1.10E-07	0.88YrCanc	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
613	ALL	UCART2	480188.4	3774646	9.77E-08	0.88YrCanc	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
614	ALL	UCART2	480268.8	3774646	8.65E-08	0.88YrCanc	8.65E-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
615	ALL	UCART2	480349.3	3774646	7.70E-08	0.88YrCanc	7.70E-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
616	ALL	UCART2	480429.7	3774646	6.88E-08	0.88YrCanc	6.88E-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
617	ALL	UCART2	480510.1	3774646	6.16E-08	0.88YrCanc	6.16E-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
618	ALL	UCART2	480590.5	3774646	5.54E-08	0.88YrCanc	5.54E-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
619	ALL	UCART2	480670.9	3774646	4.79E-08	0.88YrCanc	4.79E-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
620	ALL	UCART2	480751.4	3774646	4.32E-08	0.88YrCanc	4.32E-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
621	ALL	UCART2	480831.8	3774646	3.96E-08	0.88YrCanc	3.96E-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
622	ALL	UCART2	480912.2	3774646	3.60E-08	0.88YrCanc	3.60E-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
623	ALL	UCART2	480992.6	3774646	3.29E-08	0.88YrCanc	3.29E-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
624	ALL	UCART2	481073	3774646	2.99E-08	0.88YrCanc	2.99E-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
625	ALL	UCART2	481153.5	3774646	2.74E-08	0.88YrCanc	2.74E-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
626	ALL	UCART2	481233.9	3774646	2.53E-08	0.88YrCanc	2.53E-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
627	ALL	UCART2	481314.3	3774646	2.36E-08	0.88YrCanc	2.36E-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
628	ALL	UCART2	481394.7	3774646	2.20E-08	0.88YrCanc	2.20E-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
629	ALL	UCART2	481475.1	3774646	2.06E-08	0.88YrCanc	2.06E-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
630	ALL	UCART2	481555.6	3774646	1.95E-08	0.88YrCanc	1.95E-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
631	ALL	UCART2	479947.2	3774675	1.19E-07	0.88YrCanc	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
632	ALL	UCART2	480027.6	3774675	1.13E-07	0.88YrCanc	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
633	ALL	UCART2	480108	3774675	1.04E-07	0.88YrCanc	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
634	ALL	UCART2	480188.4	3774675	9.31E-08	0.88YrCanc	9.31E-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
635	ALL	UCART2	480268.8	3774675	8.27E-08	0.88YrCanc	8.27E-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
636	ALL	UCART2	480349.3	3774675	7.33E-08	0.88YrCanc	7.33E-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

637	ALL	UCART2	480429.7	3774675	6.59E-08	0.88YrCanc	6.59E-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
638	ALL	UCART2	480510.1	3774675	5.93E-08	0.88YrCanc	5.93E-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
639	ALL	UCART2	480590.5	3774675	5.33E-08	0.88YrCanc	5.33E-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
640	ALL	UCART2	480670.9	3774675	4.64E-08	0.88YrCanc	4.64E-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
641	ALL	UCART2	480751.4	3774675	4.17E-08	0.88YrCanc	4.17E-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
642	ALL	UCART2	480831.8	3774675	3.81E-08	0.88YrCanc	3.81E-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
643	ALL	UCART2	480912.2	3774675	3.47E-08	0.88YrCanc	3.47E-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
644	ALL	UCART2	480992.6	3774675	3.17E-08	0.88YrCanc	3.17E-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
645	ALL	UCART2	481073	3774675	2.91E-08	0.88YrCanc	2.91E-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
646	ALL	UCART2	481153.5	3774675	2.66E-08	0.88YrCanc	2.66E-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
647	ALL	UCART2	481233.9	3774675	2.45E-08	0.88YrCanc	2.45E-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
648	ALL	UCART2	481314.3	3774675	2.29E-08	0.88YrCanc	2.29E-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
649	ALL	UCART2	481394.7	3774675	2.14E-08	0.88YrCanc	2.14E-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
650	ALL	UCART2	481475.1	3774675	2.01E-08	0.88YrCanc	2.01E-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
651	ALL	UCART2	481555.6	3774675	1.88E-08	0.88YrCanc	1.88E-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
652	ALL	UCART2	479947.2	3774704	1.11E-07	0.88YrCanc	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
653	ALL	UCART2	480027.6	3774704	1.05E-07	0.88YrCanc	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
654	ALL	UCART2	480108	3774704	9.62E-08	0.88YrCanc	9.62E-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
655	ALL	UCART2	480188.4	3774704	8.65E-08	0.88YrCanc	8.65E-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
656	ALL	UCART2	480268.8	3774704	7.77E-08	0.88YrCanc	7.77E-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
657	ALL	UCART2	480349.3	3774704	6.98E-08	0.88YrCanc	6.98E-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
658	ALL	UCART2	480429.7	3774704	6.29E-08	0.88YrCanc	6.29E-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
659	ALL	UCART2	480510.1	3774704	5.67E-08	0.88YrCanc	5.67E-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
660	ALL	UCART2	480590.5	3774704	5.11E-08	0.88YrCanc	5.11E-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
661	ALL	UCART2	480670.9	3774704	4.51E-08	0.88YrCanc	4.51E-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
662	ALL	UCART2	480751.4	3774704	4.03E-08	0.88YrCanc	4.03E-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
663	ALL	UCART2	480831.8	3774704	3.71E-08	0.88YrCanc	3.71E-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
664	ALL	UCART2	480912.2	3774704	3.35E-08	0.88YrCanc	3.35E-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
665	ALL	UCART2	480992.6	3774704	3.05E-08	0.88YrCanc	3.05E-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
666	ALL	UCART2	481073	3774704	2.80E-08	0.88YrCanc	2.80E-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
667	ALL	UCART2	481153.5	3774704	2.58E-08	0.88YrCanc	2.58E-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
668	ALL	UCART2	481233.9	3774704	2.37E-08	0.88YrCanc	2.37E-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
669	ALL	UCART2	481314.3	3774704	2.22E-08	0.88YrCanc	2.22E-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
670	ALL	UCART2	481394.7	3774704	2.08E-08	0.88YrCanc	2.08E-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
671	ALL	UCART2	481475.1	3774704	1.95E-08	0.88YrCanc	1.95E-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
672	ALL	UCART2	481555.6	3774704	1.81E-08	0.88YrCanc	1.81E-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
673	ALL	UCART2	479947.2	3774733	1.03E-07	0.88YrCanc	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
674	ALL	UCART2	480027.6	3774733	9.65E-08	0.88YrCanc	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
675	ALL	UCART2	480108	3774733	8.91E-08	0.88YrCanc	8.91E-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
676	ALL	UCART2	480188.4	3774733	8.07E-08	0.88YrCanc	8.07E-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
677	ALL	UCART2	480268.8	3774733	7.35E-08	0.88YrCanc	7.35E-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
678	ALL	UCART2	480349.3	3774733	6.66E-08	0.88YrCanc	6.66E-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
679	ALL	UCART2	480429.7	3774733	6.03E-08	0.88YrCanc	6.03E-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
680	ALL	UCART2	480510.1	3774733	5.42E-08	0.88YrCanc	5.42E-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
681	ALL	UCART2	480590.5	3774733	4.89E-08	0.88YrCanc	4.89E-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
682	ALL	UCART2	480670.9	3774733	4.37E-08	0.88YrCanc	4.37E-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
683	ALL	UCART2	480751.4	3774733	3.89E-08	0.88YrCanc	3.89E-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
684	ALL	UCART2	480831.8	3774733	3.58E-08	0.88YrCanc	3.58E-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
685	ALL	UCART2	480912.2	3774733	3.25E-08	0.88YrCanc	3.25E-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
686	ALL	UCART2	480992.6	3774733	2.96E-08	0.88YrCanc	2.96E-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
687	ALL	UCART2	481073	3774733	2.72E-08	0.88YrCanc	2.72E-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
688	ALL	UCART2	481153.5	3774733	2.50E-08	0.88YrCanc	2.50E-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
689	ALL	UCART2	481233.9	3774733	2.31E-08	0.88YrCanc	2.31E-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
690	ALL	UCART2	481314.3	3774733	2.16E-08	0.88YrCanc	2.16E-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
691	ALL	UCART2	481394.7	3774733	2.02E-08	0.88YrCanc	2.02E-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
692	ALL	UCART2	481475.1	3774733	1.89E-08	0.88YrCanc	1.89E-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
693	ALL	UCART2	481555.6	3774733	1.75E-08	0.88YrCanc	1.75E-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
694	ALL	UCART2	479947.2	3774762	9.64E-08	0.88YrCanc	9.64E-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
695	ALL	UCART2	480027.6	3774762	9.02E-08	0.88YrCanc	9.02E-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
696	ALL	UCART2	480108	3774762	8.23E-08	0.88YrCanc	8.23E-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
697	ALL	UCART2	480188.4	3774762	7.60E-08	0.88YrCanc	7.60E-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
698	ALL	UCART2	480268.8	3774762	6.99E-08	0.88YrCanc	6.99E-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
699	ALL	UCART2	480349.3	3774762	6.38E-08	0.88YrCanc	6.38E-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
700	ALL	UCART2	480429.7	3774762	5.79E-08	0.88YrCanc	5.79E-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
701	ALL	UCART2	480510.1	3774762	5.21E-08	0.88YrCanc	5.21E-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
702	ALL	UCART2	480590.5	3774762	4.71E-08	0.88YrCanc	4.71E-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
703	ALL	UCART2	480670.9	3774762	4.15E-08	0.88YrCanc	4.15E-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
704	ALL	UCART2	480751.4	3774762	3.76E-08	0.88YrCanc	3.76E-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
705	ALL	UCART2	480831.8	3774762	3.42E-08	0.88YrCanc	3.42E-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
706	ALL	UCART2	480912.2	3774762	3.14E-08	0.88YrCanc	3.14E-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
707	ALL	UCART2	480992.6	3774762	2.85E-08	0.88YrCanc	2.85E-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
708	ALL	UCART2	481073	3774762	2.62E-08	0.88YrCanc	2.62E-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
709	ALL	UCART2	481153.5	3774762	2.43E-08	0.88YrCanc	2.43E-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
710	ALL	UCART2	481233.9	3774762	2.24E-08	0.88YrCanc	2.24E-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
711	ALL	UCART2	481314.3	3774762	2.10E-08	0.88YrCanc	2.10E-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
712	ALL	UCART2	481394.7	3774762	1.96E-08	0.88YrCanc	1.96E-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
713	ALL	UCART2	481475.1	3774762	1.83E-08	0.88YrCanc	1.83E-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
714	ALL	UCART2	481555.6	3774762	1.69E-08	0.88YrCanc	1.69E-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
715	ALL	UCART2	479947.2	3774792	9.03E-08	0.88YrCanc	9.03E-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
716	ALL	UCART2	480027.6	3774792	8.48E-08	0.88YrCanc	8.48E-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
717	ALL	UCART2	480108	3774792	7.83E-08	0.88YrCanc	7.83E-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
718	ALL	UCART2	480188.4	3774792	7.23E-08	0.88YrCanc	7.23E-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
719	ALL	UCART2	480268.8	3774792	6.66E-08	0.88YrCanc	6.66E-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
720	ALL	UCART2	480349.3	3774792	6.09E-08	0.88YrCanc	6.09E-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
721	ALL	UCART2	480429.7	3774792	5.55E-08	0.88YrCanc	5.55E-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
722	ALL	UCART2	480510.1	3774792	5.02E-08	0.88YrCanc	5.02E-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
723	ALL	UCART2	480590.5	3774792	4.54E-08	0.88YrCanc	4.54E-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
724	ALL	UCART2	480670.9	3774792	3.99E-08	0.88YrCanc	3.99E-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
725	ALL	UCART2	480751.4	3774792	3.63E-08	0.88YrCanc	3.63E-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
726	ALL	UCART2	480831.8	3774792	3.32E-08	0.88YrCanc	3.32E-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
727	ALL	UCART2	480912.2	3774792	3.04E-08	0.88YrCanc	3.04E-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

728	ALL	UCART2	480992.6	3774792	2.77E-08	0.88YrCanc	2.77E-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
729	ALL	UCART2	481073	3774792	2.53E-08	0.88YrCanc	2.53E-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
730	ALL	UCART2	481153.5	3774792	2.36E-08	0.88YrCanc	2.36E-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
731	ALL	UCART2	481233.9	3774792	2.19E-08	0.88YrCanc	2.19E-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
732	ALL	UCART2	481314.3	3774792	2.04E-08	0.88YrCanc	2.04E-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
733	ALL	UCART2	481394.7	3774792	1.91E-08	0.88YrCanc	1.91E-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
734	ALL	UCART2	481475.1	3774792	1.78E-08	0.88YrCanc	1.78E-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
735	ALL	UCART2	481555.6	3774792	1.65E-08	0.88YrCanc	1.65E-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
736	ALL	UCART2	479947.2	3774821	8.49E-08	0.88YrCanc	8.49E-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
737	ALL	UCART2	480027.6	3774821	7.99E-08	0.88YrCanc	7.99E-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
738	ALL	UCART2	480108	3774821	7.41E-08	0.88YrCanc	7.41E-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
739	ALL	UCART2	480188.4	3774821	6.86E-08	0.88YrCanc	6.86E-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
740	ALL	UCART2	480268.8	3774821	6.34E-08	0.88YrCanc	6.34E-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	UCART2	480349.3	3774821	5.83E-08	0.88YrCanc	5.83E-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
742	ALL	UCART2	480429.7	3774821	5.34E-08	0.88YrCanc	5.34E-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
743	ALL	UCART2	480510.1	3774821	4.85E-08	0.88YrCanc	4.85E-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
744	ALL	UCART2	480590.5	3774821	4.39E-08	0.88YrCanc	4.39E-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
745	ALL	UCART2	480670.9	3774821	3.86E-08	0.88YrCanc	3.86E-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
746	ALL	UCART2	480751.4	3774821	3.52E-08	0.88YrCanc	3.52E-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
747	ALL	UCART2	480831.8	3774821	3.26E-08	0.88YrCanc	3.26E-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
748	ALL	UCART2	480912.2	3774821	3.00E-08	0.88YrCanc	3.00E-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
749	ALL	UCART2	480992.6	3774821	2.71E-08	0.88YrCanc	2.71E-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
750	ALL	UCART2	481073	3774821	2.49E-08	0.88YrCanc	2.49E-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
751	ALL	UCART2	481153.5	3774821	2.29E-08	0.88YrCanc	2.29E-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
752	ALL	UCART2	481233.9	3774821	2.12E-08	0.88YrCanc	2.12E-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
753	ALL	UCART2	481314.3	3774821	1.99E-08	0.88YrCanc	1.99E-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
754	ALL	UCART2	481394.7	3774821	1.86E-08	0.88YrCanc	1.86E-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
755	ALL	UCART2	481475.1	3774821	1.73E-08	0.88YrCanc	1.73E-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
756	ALL	UCART2	481555.6	3774821	1.61E-08	0.88YrCanc	1.61E-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
757	ALL	UCART2	479947.2	3774850	7.99E-08	0.88YrCanc	7.99E-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
758	ALL	UCART2	480027.6	3774850	7.50E-08	0.88YrCanc	7.50E-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
759	ALL	UCART2	480108	3774850	7.03E-08	0.88YrCanc	7.03E-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
760	ALL	UCART2	480188.4	3774850	6.51E-08	0.88YrCanc	6.51E-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
761	ALL	UCART2	480268.8	3774850	6.05E-08	0.88YrCanc	6.05E-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
762	ALL	UCART2	480349.3	3774850	5.57E-08	0.88YrCanc	5.57E-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
763	ALL	UCART2	480429.7	3774850	5.15E-08	0.88YrCanc	5.15E-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
764	ALL	UCART2	480510.1	3774850	4.69E-08	0.88YrCanc	4.69E-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
765	ALL	UCART2	480590.5	3774850	4.26E-08	0.88YrCanc	4.26E-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
766	ALL	UCART2	480670.9	3774850	3.78E-08	0.88YrCanc	3.78E-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
767	ALL	UCART2	480751.4	3774850	3.40E-08	0.88YrCanc	3.40E-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
768	ALL	UCART2	480831.8	3774850	3.12E-08	0.88YrCanc	3.12E-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
769	ALL	UCART2	480912.2	3774850	2.89E-08	0.88YrCanc	2.89E-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
770	ALL	UCART2	480992.6	3774850	2.64E-08	0.88YrCanc	2.64E-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
771	ALL	UCART2	481073	3774850	2.41E-08	0.88YrCanc	2.41E-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
772	ALL	UCART2	481153.5	3774850	2.23E-08	0.88YrCanc	2.23E-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
773	ALL	UCART2	481233.9	3774850	2.06E-08	0.88YrCanc	2.06E-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
774	ALL	UCART2	481314.3	3774850	1.94E-08	0.88YrCanc	1.94E-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
775	ALL	UCART2	481394.7	3774850	1.80E-08	0.88YrCanc	1.80E-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
776	ALL	UCART2	481475.1	3774850	1.69E-08	0.88YrCanc	1.69E-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
777	ALL	UCART2	481555.6	3774850	1.57E-08	0.88YrCanc	1.57E-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	UCART2	479947.2	3774879	7.54E-08	0.88YrCanc	7.54E-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
779	ALL	UCART2	480027.6	3774879	7.16E-08	0.88YrCanc	7.16E-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
780	ALL	UCART2	480108	3774879	6.64E-08	0.88YrCanc	6.64E-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
781	ALL	UCART2	480188.4	3774879	6.21E-08	0.88YrCanc	6.21E-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
782	ALL	UCART2	480268.8	3774879	5.78E-08	0.88YrCanc	5.78E-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
783	ALL	UCART2	480349.3	3774879	5.34E-08	0.88YrCanc	5.34E-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
784	ALL	UCART2	480429.7	3774879	4.94E-08	0.88YrCanc	4.94E-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
785	ALL	UCART2	480510.1	3774879	4.54E-08	0.88YrCanc	4.54E-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
786	ALL	UCART2	480590.5	3774879	4.13E-08	0.88YrCanc	4.13E-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
787	ALL	UCART2	480670.9	3774879	3.61E-08	0.88YrCanc	3.61E-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
788	ALL	UCART2	480751.4	3774879	3.30E-08	0.88YrCanc	3.30E-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
789	ALL	UCART2	480831.8	3774879	3.06E-08	0.88YrCanc	3.06E-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
790	ALL	UCART2	480912.2	3774879	2.79E-08	0.88YrCanc	2.79E-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
791	ALL	UCART2	480992.6	3774879	2.55E-08	0.88YrCanc	2.55E-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
792	ALL	UCART2	481073	3774879	2.34E-08	0.88YrCanc	2.34E-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
793	ALL	UCART2	481153.5	3774879	2.17E-08	0.88YrCanc	2.17E-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
794	ALL	UCART2	481233.9	3774879	2.00E-08	0.88YrCanc	2.00E-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
795	ALL	UCART2	481314.3	3774879	1.88E-08	0.88YrCanc	1.88E-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
796	ALL	UCART2	481394.7	3774879	1.75E-08	0.88YrCanc	1.75E-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
797	ALL	UCART2	481475.1	3774879	1.65E-08	0.88YrCanc	1.65E-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
798	ALL	UCART2	481555.6	3774879	1.53E-08	0.88YrCanc	1.53E-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
799	ALL	UCART2	479947.2	3774908	7.13E-08	0.88YrCanc	7.13E-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
800	ALL	UCART2	480027.6	3774908	6.60E-08	0.88YrCanc	6.60E-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
801	ALL	UCART2	480108	3774908	6.36E-08	0.88YrCanc	6.36E-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
802	ALL	UCART2	480188.4	3774908	5.93E-08	0.88YrCanc	5.93E-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
803	ALL	UCART2	480268.8	3774908	5.53E-08	0.88YrCanc	5.53E-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
804	ALL	UCART2	480349.3	3774908	5.13E-08	0.88YrCanc	5.13E-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
805	ALL	UCART2	480429.7	3774908	4.76E-08	0.88YrCanc	4.76E-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
806	ALL	UCART2	480510.1	3774908	4.37E-08	0.88YrCanc	4.37E-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	UCART2	480590.5	3774908	3.99E-08	0.88YrCanc	3.99E-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	UCART2	480670.9	3774908	3.53E-08	0.88YrCanc	3.53E-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
809	ALL	UCART2	480751.4	3774908	3.20E-08	0.88YrCanc	3.20E-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
810	ALL	UCART2	480831.8	3774908	2.98E-08	0.88YrCanc	2.98E-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
811	ALL	UCART2	480912.2	3774908	2.72E-08	0.88YrCanc	2.72E-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
812	ALL	UCART2	480992.6	3774908	2.49E-08	0.88YrCanc	2.49E-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
813	ALL	UCART2	481073	3774908	2.28E-08	0.88YrCanc	2.28E-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
814	ALL	UCART2	481153.5	3774908	2.12E-08	0.88YrCanc	2.12E-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
815	ALL	UCART2	481233.9	3774908	1.95E-08	0.88YrCanc	1.95E-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
816	ALL	UCART2	481314.3	3774908	1.83E-08	0.88YrCanc	1.83E-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
817	ALL	UCART2	481394.7	3774908	1.70E-08	0.88YrCanc	1.70E-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
818	ALL	UCART2	481475.1	3774908	1.61E-08	0.88YrCanc	1.61E-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

819	ALL	UCART2	481555.6	3774908	1.50E-08	0.88YrCanc	1.50E-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
820	ALL	UCART2	479947.2	3774937	6.75E-08	0.88YrCanc	6.75E-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
821	ALL	UCART2	480027.6	3774937	6.30E-08	0.88YrCanc	6.30E-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
822	ALL	UCART2	480108	3774937	6.06E-08	0.88YrCanc	6.06E-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	UCART2	480188.4	3774937	5.67E-08	0.88YrCanc	5.67E-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	UCART2	480268.8	3774937	5.30E-08	0.88YrCanc	5.30E-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
825	ALL	UCART2	480349.3	3774937	4.93E-08	0.88YrCanc	4.93E-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	UCART2	480429.7	3774937	4.60E-08	0.88YrCanc	4.60E-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
827	ALL	UCART2	480510.1	3774937	4.22E-08	0.88YrCanc	4.22E-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
828	ALL	UCART2	480590.5	3774937	3.86E-08	0.88YrCanc	3.86E-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
829	ALL	UCART2	480670.9	3774937	3.48E-08	0.88YrCanc	3.48E-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
830	ALL	UCART2	480751.4	3774937	3.10E-08	0.88YrCanc	3.10E-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
831	ALL	UCART2	480831.8	3774937	2.90E-08	0.88YrCanc	2.90E-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
832	ALL	UCART2	480912.2	3774937	2.65E-08	0.88YrCanc	2.65E-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
833	ALL	UCART2	480992.6	3774937	2.43E-08	0.88YrCanc	2.43E-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
834	ALL	UCART2	481073	3774937	2.22E-08	0.88YrCanc	2.22E-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
835	ALL	UCART2	481153.5	3774937	2.06E-08	0.88YrCanc	2.06E-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
836	ALL	UCART2	481233.9	3774937	1.90E-08	0.88YrCanc	1.90E-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
837	ALL	UCART2	481314.3	3774937	1.78E-08	0.88YrCanc	1.78E-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	UCART2	481394.7	3774937	1.66E-08	0.88YrCanc	1.66E-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	UCART2	481475.1	3774937	1.57E-08	0.88YrCanc	1.57E-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	UCART2	481555.6	3774937	1.46E-08	0.88YrCanc	1.46E-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
841	ALL	UCART2	479947.2	3774966	6.41E-08	0.88YrCanc	6.41E-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
842	ALL	UCART2	480027.6	3774966	6.06E-08	0.88YrCanc	6.06E-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
843	ALL	UCART2	480108	3774966	5.78E-08	0.88YrCanc	5.78E-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
844	ALL	UCART2	480188.4	3774966	5.42E-08	0.88YrCanc	5.42E-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
845	ALL	UCART2	480268.8	3774966	5.07E-08	0.88YrCanc	5.07E-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
846	ALL	UCART2	480349.3	3774966	4.75E-08	0.88YrCanc	4.75E-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
847	ALL	UCART2	480429.7	3774966	4.42E-08	0.88YrCanc	4.42E-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
848	ALL	UCART2	480510.1	3774966	4.07E-08	0.88YrCanc	4.07E-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
849	ALL	UCART2	480590.5	3774966	3.74E-08	0.88YrCanc	3.74E-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
850	ALL	UCART2	480670.9	3774966	3.33E-08	0.88YrCanc	3.33E-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	UCART2	480751.4	3774966	3.01E-08	0.88YrCanc	3.01E-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
852	ALL	UCART2	480831.8	3774966	2.82E-08	0.88YrCanc	2.82E-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	UCART2	480912.2	3774966	2.58E-08	0.88YrCanc	2.58E-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	UCART2	480992.6	3774966	2.37E-08	0.88YrCanc	2.37E-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	UCART2	481073	3774966	2.17E-08	0.88YrCanc	2.17E-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
856	ALL	UCART2	481153.5	3774966	2.00E-08	0.88YrCanc	2.00E-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	UCART2	481233.9	3774966	1.85E-08	0.88YrCanc	1.85E-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	UCART2	481314.3	3774966	1.72E-08	0.88YrCanc	1.72E-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
859	ALL	UCART2	481394.7	3774966	1.62E-08	0.88YrCanc	1.62E-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
860	ALL	UCART2	481475.1	3774966	1.53E-08	0.88YrCanc	1.53E-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
861	ALL	UCART2	481555.6	3774966	1.43E-08	0.88YrCanc	1.43E-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
862	ALL	UCART2	479947.2	3774996	6.09E-08	0.88YrCanc	6.09E-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
863	ALL	UCART2	480027.6	3774996	5.81E-08	0.88YrCanc	5.81E-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
864	ALL	UCART2	480108	3774996	5.53E-08	0.88YrCanc	5.53E-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
865	ALL	UCART2	480188.4	3774996	5.18E-08	0.88YrCanc	5.18E-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	UCART2	480268.8	3774996	4.87E-08	0.88YrCanc	4.87E-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	UCART2	480349.3	3774996	4.57E-08	0.88YrCanc	4.57E-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	UCART2	480429.7	3774996	4.26E-08	0.88YrCanc	4.26E-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	UCART2	480510.1	3774996	3.95E-08	0.88YrCanc	3.95E-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
870	ALL	UCART2	480590.5	3774996	3.63E-08	0.88YrCanc	3.63E-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
871	ALL	UCART2	480670.9	3774996	3.30E-08	0.88YrCanc	3.30E-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
872	ALL	UCART2	480751.4	3774996	2.91E-08	0.88YrCanc	2.91E-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
873	ALL	UCART2	480831.8	3774996	2.76E-08	0.88YrCanc	2.76E-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
874	ALL	UCART2	480912.2	3774996	2.53E-08	0.88YrCanc	2.53E-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
875	ALL	UCART2	480992.6	3774996	2.32E-08	0.88YrCanc	2.32E-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
876	ALL	UCART2	481073	3774996	2.12E-08	0.88YrCanc	2.12E-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
877	ALL	UCART2	481153.5	3774996	1.94E-08	0.88YrCanc	1.94E-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
878	ALL	UCART2	481233.9	3774996	1.82E-08	0.88YrCanc	1.82E-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
879	ALL	UCART2	481314.3	3774996	1.69E-08	0.88YrCanc	1.69E-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
880	ALL	UCART2	481394.7	3774996	1.58E-08	0.88YrCanc	1.58E-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
881	ALL	UCART2	481475.1	3774996	1.50E-08	0.88YrCanc	1.50E-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
882	ALL	UCART2	481555.6	3774996	1.40E-08	0.88YrCanc	1.40E-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
883	ALL		479863.1	3774072	9.88E-06	0.88YrCanc	9.88E-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
884	ALL		479886.6	3774070	7.06E-06	0.88YrCanc	7.06E-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
885	ALL		479901.5	3774140	1.99E-06	0.88YrCanc	1.99E-06	0.00E+00	0.00E+00	0.00E+00	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		479777.1	3774147	2.74E-06	0.88YrCanc	2.74E-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
887	ALL		479777.5	3774162	2.18E-06	0.88YrCanc	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

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEV	RESP	SKIN	EYE	BONE/TEET	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	479147.3	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
2	ALL	UCART1	479186.1	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
3	ALL	UCART1	479225	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
4	ALL	UCART1	479263.8	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
5	ALL	UCART1	479302.7	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
6	ALL	UCART1	479341.5	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
7	ALL	UCART1	479380.4	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
8	ALL	UCART1	479419.2	3774220	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
9	ALL	UCART1	479458.1	3774220	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
10	ALL	UCART1	479496.9	3774220	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
11	ALL	UCART1	479535.8	3774220	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
12	ALL	UCART1	479574.6	3774220	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
13	ALL	UCART1	479613.5	3774220	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-04
14	ALL	UCART1	479652.3	3774220	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
15	ALL	UCART1	479691.2	3774220	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
16	ALL	UCART1	479730	3774220	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
17	ALL	UCART1	479768.9	3774220	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
18	ALL	UCART1	479807.7	3774220	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
19	ALL	UCART1	479846.6	3774220	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
20	ALL	UCART1	479885.4	3774220	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
21	ALL	UCART1	479924.3	3774220	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
22	ALL	UCART1	479147.3	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
23	ALL	UCART1	479186.1	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
24	ALL	UCART1	479225	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
25	ALL	UCART1	479263.8	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
26	ALL	UCART1	479302.7	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
27	ALL	UCART1	479341.5	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
28	ALL	UCART1	479380.4	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-04
29	ALL	UCART1	479419.2	3774259	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
30	ALL	UCART1	479458.1	3774259	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
31	ALL	UCART1	479496.9	3774259	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
32	ALL	UCART1	479535.8	3774259	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
33	ALL	UCART1	479574.6	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04
34	ALL	UCART1	479613.5	3774259	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
35	ALL	UCART1	479652.3	3774259	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
36	ALL	UCART1	479691.2	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04
37	ALL	UCART1	479730	3774259	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
38	ALL	UCART1	479768.9	3774259	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
39	ALL	UCART1	479807.7	3774259	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
40	ALL	UCART1	479846.6	3774259	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
41	ALL	UCART1	479885.4	3774259	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	UCART1	479924.3	3774259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-04
43	ALL	UCART1	479147.3	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
44	ALL	UCART1	479186.1	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
45	ALL	UCART1	479225	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
46	ALL	UCART1	479263.8	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
47	ALL	UCART1	479302.7	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
48	ALL	UCART1	479341.5	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-04
49	ALL	UCART1	479380.4	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
50	ALL	UCART1	479419.2	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-04
51	ALL	UCART1	479458.1	3774298	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
52	ALL	UCART1	479496.9	3774298	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
53	ALL	UCART1	479535.8	3774298	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
54	ALL	UCART1	479574.6	3774298	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
55	ALL	UCART1	479613.5	3774298	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
56	ALL	UCART1	479652.3	3774298	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
57	ALL	UCART1	479691.2	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-04
58	ALL	UCART1	479730	3774298	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
59	ALL	UCART1	479768.9	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-04
60	ALL	UCART1	479807.7	3774298	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-04
61	ALL	UCART1	479846.6	3774298	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
62	ALL	UCART1	479885.4	3774298	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
63	ALL	UCART1	479924.3	3774298	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
64	ALL	UCART1	479147.3	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
65	ALL	UCART1	479186.1	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
66	ALL	UCART1	479225	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
67	ALL	UCART1	479263.8	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
68	ALL	UCART1	479302.7	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
69	ALL	UCART1	479341.5	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
70	ALL	UCART1	479380.4	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
71	ALL	UCART1	479419.2	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
72	ALL	UCART1	479458.1	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-04
73	ALL	UCART1	479496.9	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
74	ALL	UCART1	479535.8	3774336	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
75	ALL	UCART1	479574.6	3774336	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
76	ALL	UCART1	479613.5	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-04
77	ALL	UCART1	479652.3	3774336	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
78	ALL	UCART1	479691.2	3774336	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
79	ALL	UCART1	479730	3774336	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
80	ALL	UCART1	479768.9	3774336	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
81	ALL	UCART1	479807.7	3774336	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
82	ALL	UCART1	479846.6	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-04
83	ALL	UCART1	479885.4	3774336	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
84	ALL	UCART1	479924.3	3774336	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E-04
85	ALL	UCART1	479147.3	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
86	ALL	UCART1	479186.1	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
87	ALL	UCART1	479225	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
88	ALL	UCART1	479263.8	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
89	ALL	UCART1	479302.7	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
90	ALL	UCART1	479341.5	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
91	ALL	UCART1	479380.4	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
92	ALL	UCART1	479419.2	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
93	ALL	UCART1	479458.1	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
94	ALL	UCART1	479496.9	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
95	ALL	UCART1	479535.8	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
96	ALL	UCART1	479574.6	3774375	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
97	ALL	UCART1	479613.5	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-04
98	ALL	UCART1	479652.3	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.62E-04

99	ALL	UCART1	479691.2	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04
100	ALL	UCART1	479730	3774375	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
101	ALL	UCART1	479768.9	3774375	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
102	ALL	UCART1	479807.7	3774375	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
103	ALL	UCART1	479846.6	3774375	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
104	ALL	UCART1	479885.4	3774375	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
105	ALL	UCART1	479924.3	3774375	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-04
106	ALL	UCART1	479147.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
107	ALL	UCART1	479186.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
108	ALL	UCART1	479225	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
109	ALL	UCART1	479263.8	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
110	ALL	UCART1	479302.7	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
111	ALL	UCART1	479341.5	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
112	ALL	UCART1	479380.4	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
113	ALL	UCART1	479419.2	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
114	ALL	UCART1	479458.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
115	ALL	UCART1	479496.9	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
116	ALL	UCART1	479535.8	3774413	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
117	ALL	UCART1	479574.6	3774413	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
118	ALL	UCART1	479613.5	3774413	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
119	ALL	UCART1	479652.3	3774413	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
120	ALL	UCART1	479691.2	3774413	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
121	ALL	UCART1	479730	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-04
122	ALL	UCART1	479768.9	3774413	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
123	ALL	UCART1	479807.7	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-04
124	ALL	UCART1	479846.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
125	ALL	UCART1	479885.4	3774413	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
126	ALL	UCART1	479924.3	3774413	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
127	ALL	UCART1	479147.3	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
128	ALL	UCART1	479186.1	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
129	ALL	UCART1	479225	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
130	ALL	UCART1	479263.8	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
131	ALL	UCART1	479302.7	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
132	ALL	UCART1	479341.5	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
133	ALL	UCART1	479380.4	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
134	ALL	UCART1	479419.2	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
135	ALL	UCART1	479458.1	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
136	ALL	UCART1	479496.9	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
137	ALL	UCART1	479535.8	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
138	ALL	UCART1	479574.6	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
139	ALL	UCART1	479613.5	3774452	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
140	ALL	UCART1	479652.3	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
141	ALL	UCART1	479691.2	3774452	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
142	ALL	UCART1	479730	3774452	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
143	ALL	UCART1	479768.9	3774452	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
144	ALL	UCART1	479807.7	3774452	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
145	ALL	UCART1	479846.6	3774452	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
146	ALL	UCART1	479885.4	3774452	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
147	ALL	UCART1	479924.3	3774452	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
148	ALL	UCART1	479147.3	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
149	ALL	UCART1	479186.1	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
150	ALL	UCART1	479225	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
151	ALL	UCART1	479263.8	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
152	ALL	UCART1	479302.7	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
153	ALL	UCART1	479341.5	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
154	ALL	UCART1	479380.4	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
155	ALL	UCART1	479419.2	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
156	ALL	UCART1	479458.1	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
157	ALL	UCART1	479496.9	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
158	ALL	UCART1	479535.8	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
159	ALL	UCART1	479574.6	3774491	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
160	ALL	UCART1	479613.5	3774491	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
161	ALL	UCART1	479652.3	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
162	ALL	UCART1	479691.2	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.11E-04
163	ALL	UCART1	479730	3774491	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
164	ALL	UCART1	479768.9	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-04
165	ALL	UCART1	479807.7	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
166	ALL	UCART1	479846.6	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
167	ALL	UCART1	479885.4	3774491	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
168	ALL	UCART1	479924.3	3774491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
169	ALL	UCART1	479147.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
170	ALL	UCART1	479186.1	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
171	ALL	UCART1	479225	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
172	ALL	UCART1	479263.8	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
173	ALL	UCART1	479302.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
174	ALL	UCART1	479341.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
175	ALL	UCART1	479380.4	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
176	ALL	UCART1	479419.2	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
177	ALL	UCART1	479458.1	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
178	ALL	UCART1	479496.9	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
179	ALL	UCART1	479535.8	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
180	ALL	UCART1	479574.6	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
181	ALL	UCART1	479613.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
182	ALL	UCART1	479652.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
183	ALL	UCART1	479691.2	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
184	ALL	UCART1	479730	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
185	ALL	UCART1	479768.9	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.84E-04
186	ALL	UCART1	479807.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
187	ALL	UCART1	479846.6	3774529	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
188	ALL	UCART1	479885.4	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
189	ALL	UCART1	479924.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
190	ALL	UCART1	479147.3	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
191	ALL	UCART1	479186.1	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
192	ALL	UCART1	479225	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
193	ALL	UCART1	479263.8	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
194	ALL	UCART1	479302.7	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
195	ALL	UCART1	479341.5	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
196	ALL	UCART1	479380.4	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
197	ALL	UCART1	479419.2	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04

198	ALL	UCART1	479458.1	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
199	ALL	UCART1	479496.9	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
200	ALL	UCART1	479535.8	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
201	ALL	UCART1	479574.6	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
202	ALL	UCART1	479613.5	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
203	ALL	UCART1	479652.3	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
204	ALL	UCART1	479691.2	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
205	ALL	UCART1	479730	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
206	ALL	UCART1	479768.9	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04
207	ALL	UCART1	479807.7	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
208	ALL	UCART1	479846.6	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
209	ALL	UCART1	479885.4	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
210	ALL	UCART1	479924.3	3774568	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
211	ALL	UCART1	479147.3	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
212	ALL	UCART1	479186.1	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
213	ALL	UCART1	479225	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
214	ALL	UCART1	479263.8	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
215	ALL	UCART1	479302.7	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
216	ALL	UCART1	479341.5	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
217	ALL	UCART1	479380.4	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
218	ALL	UCART1	479419.2	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
219	ALL	UCART1	479458.1	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
220	ALL	UCART1	479496.9	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
221	ALL	UCART1	479535.8	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
222	ALL	UCART1	479574.6	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
223	ALL	UCART1	479613.5	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
224	ALL	UCART1	479652.3	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
225	ALL	UCART1	479691.2	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
226	ALL	UCART1	479730	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
227	ALL	UCART1	479768.9	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
228	ALL	UCART1	479807.7	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
229	ALL	UCART1	479846.6	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
230	ALL	UCART1	479885.4	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
231	ALL	UCART1	479924.3	3774606	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
232	ALL	UCART1	479147.3	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
233	ALL	UCART1	479186.1	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
234	ALL	UCART1	479225	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
235	ALL	UCART1	479263.8	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
236	ALL	UCART1	479302.7	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
237	ALL	UCART1	479341.5	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
238	ALL	UCART1	479380.4	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
239	ALL	UCART1	479419.2	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
240	ALL	UCART1	479458.1	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
241	ALL	UCART1	479496.9	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
242	ALL	UCART1	479535.8	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
243	ALL	UCART1	479574.6	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
244	ALL	UCART1	479613.5	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
245	ALL	UCART1	479652.3	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
246	ALL	UCART1	479691.2	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
247	ALL	UCART1	479730	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
248	ALL	UCART1	479768.9	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
249	ALL	UCART1	479807.7	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
250	ALL	UCART1	479846.6	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
251	ALL	UCART1	479885.4	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
252	ALL	UCART1	479924.3	3774645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
253	ALL	UCART1	479147.3	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
254	ALL	UCART1	479186.1	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
255	ALL	UCART1	479225	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
256	ALL	UCART1	479263.8	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
257	ALL	UCART1	479302.7	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
258	ALL	UCART1	479341.5	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
259	ALL	UCART1	479380.4	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
260	ALL	UCART1	479419.2	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
261	ALL	UCART1	479458.1	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
262	ALL	UCART1	479496.9	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
263	ALL	UCART1	479535.8	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
264	ALL	UCART1	479574.6	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
265	ALL	UCART1	479613.5	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
266	ALL	UCART1	479652.3	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
267	ALL	UCART1	479691.2	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
268	ALL	UCART1	479730	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
269	ALL	UCART1	479768.9	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
270	ALL	UCART1	479807.7	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
271	ALL	UCART1	479846.6	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
272	ALL	UCART1	479885.4	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
273	ALL	UCART1	479924.3	3774684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
274	ALL	UCART1	479147.3	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
275	ALL	UCART1	479186.1	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-05
276	ALL	UCART1	479225	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
277	ALL	UCART1	479263.8	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
278	ALL	UCART1	479302.7	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
279	ALL	UCART1	479341.5	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
280	ALL	UCART1	479380.4	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
281	ALL	UCART1	479419.2	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
282	ALL	UCART1	479458.1	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
283	ALL	UCART1	479496.9	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
284	ALL	UCART1	479535.8	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
285	ALL	UCART1	479574.6	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
286	ALL	UCART1	479613.5	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
287	ALL	UCART1	479652.3	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
288	ALL	UCART1	479691.2	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
289	ALL	UCART1	479730	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
290	ALL	UCART1	479768.9	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
291	ALL	UCART1	479807.7	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
292	ALL	UCART1	479846.6	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
293	ALL	UCART1	479885.4	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-04
294	ALL	UCART1	479924.3	3774722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
295	ALL	UCART1	479147.3	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-05
296	ALL	UCART1	479186.1	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05

297	ALL	UCART1	479225	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05
298	ALL	UCART1	479263.8	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
299	ALL	UCART1	479302.7	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
300	ALL	UCART1	479341.5	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
301	ALL	UCART1	479380.4	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
302	ALL	UCART1	479419.2	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
303	ALL	UCART1	479458.1	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
304	ALL	UCART1	479496.9	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
305	ALL	UCART1	479535.8	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
306	ALL	UCART1	479574.6	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
307	ALL	UCART1	479613.5	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
308	ALL	UCART1	479652.3	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
309	ALL	UCART1	479691.2	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
310	ALL	UCART1	479730	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
311	ALL	UCART1	479768.9	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
312	ALL	UCART1	479807.7	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
313	ALL	UCART1	479846.6	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
314	ALL	UCART1	479885.4	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
315	ALL	UCART1	479924.3	3774761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
316	ALL	UCART1	479147.3	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05
317	ALL	UCART1	479186.1	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05
318	ALL	UCART1	479225	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
319	ALL	UCART1	479263.8	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05
320	ALL	UCART1	479302.7	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
321	ALL	UCART1	479341.5	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
322	ALL	UCART1	479380.4	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
323	ALL	UCART1	479419.2	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
324	ALL	UCART1	479458.1	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
325	ALL	UCART1	479496.9	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
326	ALL	UCART1	479535.8	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
327	ALL	UCART1	479574.6	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
328	ALL	UCART1	479613.5	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
329	ALL	UCART1	479652.3	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
330	ALL	UCART1	479691.2	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
331	ALL	UCART1	479730	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
332	ALL	UCART1	479768.9	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
333	ALL	UCART1	479807.7	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
334	ALL	UCART1	479846.6	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
335	ALL	UCART1	479885.4	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
336	ALL	UCART1	479924.3	3774800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
337	ALL	UCART1	479147.3	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-05
338	ALL	UCART1	479186.1	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05
339	ALL	UCART1	479225	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-05
340	ALL	UCART1	479263.8	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
341	ALL	UCART1	479302.7	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-05
342	ALL	UCART1	479341.5	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
343	ALL	UCART1	479380.4	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
344	ALL	UCART1	479419.2	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
345	ALL	UCART1	479458.1	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
346	ALL	UCART1	479496.9	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
347	ALL	UCART1	479535.8	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
348	ALL	UCART1	479574.6	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
349	ALL	UCART1	479613.5	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
350	ALL	UCART1	479652.3	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
351	ALL	UCART1	479691.2	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
352	ALL	UCART1	479730	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
353	ALL	UCART1	479768.9	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
354	ALL	UCART1	479807.7	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
355	ALL	UCART1	479846.6	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
356	ALL	UCART1	479885.4	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
357	ALL	UCART1	479924.3	3774838	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
358	ALL	UCART1	479147.3	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
359	ALL	UCART1	479186.1	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
360	ALL	UCART1	479225	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
361	ALL	UCART1	479263.8	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05
362	ALL	UCART1	479302.7	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
363	ALL	UCART1	479341.5	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-05
364	ALL	UCART1	479380.4	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
365	ALL	UCART1	479419.2	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-05
366	ALL	UCART1	479458.1	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
367	ALL	UCART1	479496.9	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
368	ALL	UCART1	479535.8	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
369	ALL	UCART1	479574.6	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
370	ALL	UCART1	479613.5	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
371	ALL	UCART1	479652.3	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
372	ALL	UCART1	479691.2	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
373	ALL	UCART1	479730	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
374	ALL	UCART1	479768.9	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
375	ALL	UCART1	479807.7	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
376	ALL	UCART1	479846.6	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
377	ALL	UCART1	479885.4	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
378	ALL	UCART1	479924.3	3774877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
379	ALL	UCART1	479147.3	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
380	ALL	UCART1	479186.1	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05
381	ALL	UCART1	479225	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
382	ALL	UCART1	479263.8	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05
383	ALL	UCART1	479302.7	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
384	ALL	UCART1	479341.5	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
385	ALL	UCART1	479380.4	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-05
386	ALL	UCART1	479419.2	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
387	ALL	UCART1	479458.1	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
388	ALL	UCART1	479496.9	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
389	ALL	UCART1	479535.8	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
390	ALL	UCART1	479574.6	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
391	ALL	UCART1	479613.5	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
392	ALL	UCART1	479652.3	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
393	ALL	UCART1	479691.2	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
394	ALL	UCART1	479730	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
395	ALL	UCART1	479768.9	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04

396	ALL	UCART1	479807.7	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
397	ALL	UCART1	479846.6	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
398	ALL	UCART1	479885.4	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
399	ALL	UCART1	479924.3	3774915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
400	ALL	UCART1	479147.3	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-05
401	ALL	UCART1	479186.1	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-05
402	ALL	UCART1	479225	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-05
403	ALL	UCART1	479263.8	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-05
404	ALL	UCART1	479302.7	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
405	ALL	UCART1	479341.5	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-05
406	ALL	UCART1	479380.4	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-05
407	ALL	UCART1	479419.2	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
408	ALL	UCART1	479458.1	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-05
409	ALL	UCART1	479496.9	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-05
410	ALL	UCART1	479535.8	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
411	ALL	UCART1	479574.6	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.39E-05
412	ALL	UCART1	479613.5	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05
413	ALL	UCART1	479652.3	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
414	ALL	UCART1	479691.2	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
415	ALL	UCART1	479730	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
416	ALL	UCART1	479768.9	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
417	ALL	UCART1	479807.7	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
418	ALL	UCART1	479846.6	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
419	ALL	UCART1	479885.4	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
420	ALL	UCART1	479924.3	3774954	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
421	ALL	UCART1	479147.3	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-05
422	ALL	UCART1	479186.1	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-05
423	ALL	UCART1	479225	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-05
424	ALL	UCART1	479263.8	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-05
425	ALL	UCART1	479302.7	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.48E-05
426	ALL	UCART1	479341.5	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
427	ALL	UCART1	479380.4	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-05
428	ALL	UCART1	479419.2	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-05
429	ALL	UCART1	479458.1	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05
430	ALL	UCART1	479496.9	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
431	ALL	UCART1	479535.8	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
432	ALL	UCART1	479574.6	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-05
433	ALL	UCART1	479613.5	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05
434	ALL	UCART1	479652.3	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05
435	ALL	UCART1	479691.2	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
436	ALL	UCART1	479730	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
437	ALL	UCART1	479768.9	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
438	ALL	UCART1	479807.7	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05
439	ALL	UCART1	479846.6	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
440	ALL	UCART1	479885.4	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
441	ALL	UCART1	479924.3	3774993	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
442	ALL	UCART2	479947.2	3774413	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
443	ALL	UCART2	480027.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-04
444	ALL	UCART2	480108	3774413	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
445	ALL	UCART2	480188.4	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-04
446	ALL	UCART2	480268.8	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
447	ALL	UCART2	480349.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
448	ALL	UCART2	480429.7	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
449	ALL	UCART2	480510.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
450	ALL	UCART2	480590.5	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
451	ALL	UCART2	480670.9	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
452	ALL	UCART2	480751.4	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
453	ALL	UCART2	480831.8	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
454	ALL	UCART2	480912.2	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
455	ALL	UCART2	480992.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.61E-05
456	ALL	UCART2	481073	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-05
457	ALL	UCART2	481153.5	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
458	ALL	UCART2	481233.9	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05
459	ALL	UCART2	481314.3	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
460	ALL	UCART2	481394.7	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
461	ALL	UCART2	481475.1	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
462	ALL	UCART2	481555.6	3774413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-05
463	ALL	UCART2	479947.2	3774442	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
464	ALL	UCART2	480027.6	3774442	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
465	ALL	UCART2	480108	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
466	ALL	UCART2	480188.4	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
467	ALL	UCART2	480268.8	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
468	ALL	UCART2	480349.3	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
469	ALL	UCART2	480429.7	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
470	ALL	UCART2	480510.1	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
471	ALL	UCART2	480590.5	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
472	ALL	UCART2	480670.9	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
473	ALL	UCART2	480751.4	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-05
474	ALL	UCART2	480831.8	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05
475	ALL	UCART2	480912.2	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
476	ALL	UCART2	480992.6	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05
477	ALL	UCART2	481073	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-05
478	ALL	UCART2	481153.5	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-05
479	ALL	UCART2	481233.9	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-05
480	ALL	UCART2	481314.3	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
481	ALL	UCART2	481394.7	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
482	ALL	UCART2	481475.1	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
483	ALL	UCART2	481555.6	3774442	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
484	ALL	UCART2	479947.2	3774471	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
485	ALL	UCART2	480027.6	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
486	ALL	UCART2	480108	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
487	ALL	UCART2	480188.4	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
488	ALL	UCART2	480268.8	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
489	ALL	UCART2	480349.3	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
490	ALL	UCART2	480429.7	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
491	ALL	UCART2	480510.1	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
492	ALL	UCART2	480590.5	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
493	ALL	UCART2	480670.9	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
494	ALL	UCART2	480751.4	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-05

495	ALL	UCART2	480831.8	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-05
496	ALL	UCART2	480912.2	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-05
497	ALL	UCART2	480992.6	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
498	ALL	UCART2	481073	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
499	ALL	UCART2	481153.5	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
500	ALL	UCART2	481233.9	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
501	ALL	UCART2	481314.3	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05
502	ALL	UCART2	481394.7	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.07E-05
503	ALL	UCART2	481475.1	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05
504	ALL	UCART2	481555.6	3774471	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
505	ALL	UCART2	479947.2	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-04
506	ALL	UCART2	480027.6	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-04
507	ALL	UCART2	480108	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
508	ALL	UCART2	480188.4	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
509	ALL	UCART2	480268.8	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
510	ALL	UCART2	480349.3	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
511	ALL	UCART2	480429.7	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
512	ALL	UCART2	480510.1	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
513	ALL	UCART2	480590.5	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
514	ALL	UCART2	480670.9	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
515	ALL	UCART2	480751.4	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-05
516	ALL	UCART2	480831.8	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-05
517	ALL	UCART2	480912.2	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-05
518	ALL	UCART2	480992.6	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
519	ALL	UCART2	481073	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-05
520	ALL	UCART2	481153.5	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
521	ALL	UCART2	481233.9	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
522	ALL	UCART2	481314.3	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05
523	ALL	UCART2	481394.7	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
524	ALL	UCART2	481475.1	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-05
525	ALL	UCART2	481555.6	3774500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
526	ALL	UCART2	479947.2	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
527	ALL	UCART2	480027.6	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
528	ALL	UCART2	480108	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
529	ALL	UCART2	480188.4	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
530	ALL	UCART2	480268.8	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
531	ALL	UCART2	480349.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
532	ALL	UCART2	480429.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
533	ALL	UCART2	480510.1	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
534	ALL	UCART2	480590.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
535	ALL	UCART2	480670.9	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05
536	ALL	UCART2	480751.4	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-05
537	ALL	UCART2	480831.8	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
538	ALL	UCART2	480912.2	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-05
539	ALL	UCART2	480992.6	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-05
540	ALL	UCART2	481073	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-05
541	ALL	UCART2	481153.5	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-05
542	ALL	UCART2	481233.9	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
543	ALL	UCART2	481314.3	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-05
544	ALL	UCART2	481394.7	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-05
545	ALL	UCART2	481475.1	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
546	ALL	UCART2	481555.6	3774529	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
547	ALL	UCART2	479947.2	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
548	ALL	UCART2	480027.6	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
549	ALL	UCART2	480108	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
550	ALL	UCART2	480188.4	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
551	ALL	UCART2	480268.8	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
552	ALL	UCART2	480349.3	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
553	ALL	UCART2	480429.7	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
554	ALL	UCART2	480510.1	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
555	ALL	UCART2	480590.5	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05
556	ALL	UCART2	480670.9	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
557	ALL	UCART2	480751.4	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-05
558	ALL	UCART2	480831.8	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
559	ALL	UCART2	480912.2	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.92E-05
560	ALL	UCART2	480992.6	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-05
561	ALL	UCART2	481073	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-05
562	ALL	UCART2	481153.5	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
563	ALL	UCART2	481233.9	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.19E-05
564	ALL	UCART2	481314.3	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
565	ALL	UCART2	481394.7	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
566	ALL	UCART2	481475.1	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.40E-05
567	ALL	UCART2	481555.6	3774558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
568	ALL	UCART2	479947.2	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
569	ALL	UCART2	480027.6	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
570	ALL	UCART2	480108	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
571	ALL	UCART2	480188.4	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
572	ALL	UCART2	480268.8	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
573	ALL	UCART2	480349.3	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
574	ALL	UCART2	480429.7	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
575	ALL	UCART2	480510.1	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-05
576	ALL	UCART2	480590.5	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
577	ALL	UCART2	480670.9	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
578	ALL	UCART2	480751.4	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-05
579	ALL	UCART2	480831.8	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-05
580	ALL	UCART2	480912.2	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
581	ALL	UCART2	480992.6	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-05
582	ALL	UCART2	481073	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
583	ALL	UCART2	481153.5	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.37E-05
584	ALL	UCART2	481233.9	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
585	ALL	UCART2	481314.3	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
586	ALL	UCART2	481394.7	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
587	ALL	UCART2	481475.1	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-05
588	ALL	UCART2	481555.6	3774588	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
589	ALL	UCART2	479947.2	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
590	ALL	UCART2	480027.6	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
591	ALL	UCART2	480108	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
592	ALL	UCART2	480188.4	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
593	ALL	UCART2	480268.8	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04

594	ALL	UCART2	480349.3	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
595	ALL	UCART2	480429.7	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
596	ALL	UCART2	480510.1	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
597	ALL	UCART2	480590.5	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05
598	ALL	UCART2	480670.9	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
599	ALL	UCART2	480751.4	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
600	ALL	UCART2	480831.8	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.07E-05
601	ALL	UCART2	480912.2	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-05
602	ALL	UCART2	480992.6	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-05
603	ALL	UCART2	481073	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-05
604	ALL	UCART2	481153.5	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.22E-05
605	ALL	UCART2	481233.9	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-05
606	ALL	UCART2	481314.3	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05
607	ALL	UCART2	481394.7	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
608	ALL	UCART2	481475.1	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-05
609	ALL	UCART2	481555.6	3774617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
610	ALL	UCART2	479947.2	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
611	ALL	UCART2	480027.6	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
612	ALL	UCART2	480108	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
613	ALL	UCART2	480188.4	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
614	ALL	UCART2	480268.8	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
615	ALL	UCART2	480349.3	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
616	ALL	UCART2	480429.7	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
617	ALL	UCART2	480510.1	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.16E-05
618	ALL	UCART2	480590.5	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05
619	ALL	UCART2	480670.9	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-05
620	ALL	UCART2	480751.4	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-05
621	ALL	UCART2	480831.8	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-05
622	ALL	UCART2	480912.2	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-05
623	ALL	UCART2	480992.6	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
624	ALL	UCART2	481073	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
625	ALL	UCART2	481153.5	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-05
626	ALL	UCART2	481233.9	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
627	ALL	UCART2	481314.3	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
628	ALL	UCART2	481394.7	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-05
629	ALL	UCART2	481475.1	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
630	ALL	UCART2	481555.6	3774646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
631	ALL	UCART2	479947.2	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
632	ALL	UCART2	480027.6	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
633	ALL	UCART2	480108	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
634	ALL	UCART2	480188.4	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
635	ALL	UCART2	480268.8	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
636	ALL	UCART2	480349.3	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
637	ALL	UCART2	480429.7	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
638	ALL	UCART2	480510.1	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
639	ALL	UCART2	480590.5	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-05
640	ALL	UCART2	480670.9	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-05
641	ALL	UCART2	480751.4	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05
642	ALL	UCART2	480831.8	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
643	ALL	UCART2	480912.2	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-05
644	ALL	UCART2	480992.6	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.72E-05
645	ALL	UCART2	481073	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-05
646	ALL	UCART2	481153.5	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
647	ALL	UCART2	481233.9	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-05
648	ALL	UCART2	481314.3	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
649	ALL	UCART2	481394.7	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05
650	ALL	UCART2	481475.1	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-05
651	ALL	UCART2	481555.6	3774675	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
652	ALL	UCART2	479947.2	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
653	ALL	UCART2	480027.6	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
654	ALL	UCART2	480108	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
655	ALL	UCART2	480188.4	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
656	ALL	UCART2	480268.8	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
657	ALL	UCART2	480349.3	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
658	ALL	UCART2	480429.7	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05
659	ALL	UCART2	480510.1	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-05
660	ALL	UCART2	480590.5	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05
661	ALL	UCART2	480670.9	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
662	ALL	UCART2	480751.4	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-05
663	ALL	UCART2	480831.8	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-05
664	ALL	UCART2	480912.2	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
665	ALL	UCART2	480992.6	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
666	ALL	UCART2	481073	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.17E-05
667	ALL	UCART2	481153.5	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05
668	ALL	UCART2	481233.9	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
669	ALL	UCART2	481314.3	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-05
670	ALL	UCART2	481394.7	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-05
671	ALL	UCART2	481475.1	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
672	ALL	UCART2	481555.6	3774704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
673	ALL	UCART2	479947.2	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
674	ALL	UCART2	480027.6	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
675	ALL	UCART2	480108	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
676	ALL	UCART2	480188.4	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
677	ALL	UCART2	480268.8	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
678	ALL	UCART2	480349.3	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
679	ALL	UCART2	480429.7	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-05
680	ALL	UCART2	480510.1	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
681	ALL	UCART2	480590.5	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
682	ALL	UCART2	480670.9	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
683	ALL	UCART2	480751.4	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-05
684	ALL	UCART2	480831.8	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-05
685	ALL	UCART2	480912.2	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-05
686	ALL	UCART2	480992.6	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-05
687	ALL	UCART2	481073	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
688	ALL	UCART2	481153.5	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-05
689	ALL	UCART2	481233.9	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-05
690	ALL	UCART2	481314.3	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-05
691	ALL	UCART2	481394.7	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-05
692	ALL	UCART2	481475.1	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05

693	ALL	UCART2	481555.6	3774733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
694	ALL	UCART2	479947.2	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
695	ALL	UCART2	480027.6	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
696	ALL	UCART2	480108	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
697	ALL	UCART2	480188.4	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
698	ALL	UCART2	480268.8	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
699	ALL	UCART2	480349.3	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-05
700	ALL	UCART2	480429.7	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
701	ALL	UCART2	480510.1	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
702	ALL	UCART2	480590.5	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-05
703	ALL	UCART2	480670.9	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05
704	ALL	UCART2	480751.4	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-05
705	ALL	UCART2	480831.8	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-05
706	ALL	UCART2	480912.2	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
707	ALL	UCART2	480992.6	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.24E-05
708	ALL	UCART2	481073	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
709	ALL	UCART2	481153.5	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
710	ALL	UCART2	481233.9	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-05
711	ALL	UCART2	481314.3	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-05
712	ALL	UCART2	481394.7	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-05
713	ALL	UCART2	481475.1	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
714	ALL	UCART2	481555.6	3774762	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
715	ALL	UCART2	479947.2	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
716	ALL	UCART2	480027.6	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
717	ALL	UCART2	480108	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
718	ALL	UCART2	480188.4	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
719	ALL	UCART2	480268.8	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
720	ALL	UCART2	480349.3	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-05
721	ALL	UCART2	480429.7	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.26E-05
722	ALL	UCART2	480510.1	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-05
723	ALL	UCART2	480590.5	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
724	ALL	UCART2	480670.9	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
725	ALL	UCART2	480751.4	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-05
726	ALL	UCART2	480831.8	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-05
727	ALL	UCART2	480912.2	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
728	ALL	UCART2	480992.6	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E-05
729	ALL	UCART2	481073	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
730	ALL	UCART2	481153.5	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-05
731	ALL	UCART2	481233.9	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-05
732	ALL	UCART2	481314.3	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
733	ALL	UCART2	481394.7	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-05
734	ALL	UCART2	481475.1	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-05
735	ALL	UCART2	481555.6	3774792	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
736	ALL	UCART2	479947.2	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
737	ALL	UCART2	480027.6	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
738	ALL	UCART2	480108	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
739	ALL	UCART2	480188.4	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
740	ALL	UCART2	480268.8	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05
741	ALL	UCART2	480349.3	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-05
742	ALL	UCART2	480429.7	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-05
743	ALL	UCART2	480510.1	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-05
744	ALL	UCART2	480590.5	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.53E-05
745	ALL	UCART2	480670.9	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
746	ALL	UCART2	480751.4	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.24E-05
747	ALL	UCART2	480831.8	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.85E-05
748	ALL	UCART2	480912.2	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-05
749	ALL	UCART2	480992.6	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
750	ALL	UCART2	481073	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
751	ALL	UCART2	481153.5	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-05
752	ALL	UCART2	481233.9	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-05
753	ALL	UCART2	481314.3	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-05
754	ALL	UCART2	481394.7	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-05
755	ALL	UCART2	481475.1	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05
756	ALL	UCART2	481555.6	3774821	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
757	ALL	UCART2	479947.2	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
758	ALL	UCART2	480027.6	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
759	ALL	UCART2	480108	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
760	ALL	UCART2	480188.4	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
761	ALL	UCART2	480268.8	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.00E-05
762	ALL	UCART2	480349.3	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-05
763	ALL	UCART2	480429.7	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
764	ALL	UCART2	480510.1	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
765	ALL	UCART2	480590.5	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
766	ALL	UCART2	480670.9	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-05
767	ALL	UCART2	480751.4	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-05
768	ALL	UCART2	480831.8	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-05
769	ALL	UCART2	480912.2	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.30E-05
770	ALL	UCART2	480992.6	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-05
771	ALL	UCART2	481073	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-05
772	ALL	UCART2	481153.5	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
773	ALL	UCART2	481233.9	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-05
774	ALL	UCART2	481314.3	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-05
775	ALL	UCART2	481394.7	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.68E-05
776	ALL	UCART2	481475.1	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
777	ALL	UCART2	481555.6	3774850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
778	ALL	UCART2	479947.2	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
779	ALL	UCART2	480027.6	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
780	ALL	UCART2	480108	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
781	ALL	UCART2	480188.4	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05
782	ALL	UCART2	480268.8	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
783	ALL	UCART2	480349.3	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-05
784	ALL	UCART2	480429.7	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
785	ALL	UCART2	480510.1	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
786	ALL	UCART2	480590.5	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-05
787	ALL	UCART2	480670.9	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.37E-05
788	ALL	UCART2	480751.4	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-05
789	ALL	UCART2	480831.8	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-05
790	ALL	UCART2	480912.2	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-05
791	ALL	UCART2	480992.6	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-05

792	ALL	UCART2	481073	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
793	ALL	UCART2	481153.5	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
794	ALL	UCART2	481233.9	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
795	ALL	UCART2	481314.3	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-05
796	ALL	UCART2	481394.7	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-05
797	ALL	UCART2	481475.1	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05
798	ALL	UCART2	481555.6	3774879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
799	ALL	UCART2	479947.2	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
800	ALL	UCART2	480027.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
801	ALL	UCART2	480108	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
802	ALL	UCART2	480188.4	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
803	ALL	UCART2	480268.8	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
804	ALL	UCART2	480349.3	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
805	ALL	UCART2	480429.7	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-05
806	ALL	UCART2	480510.1	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-05
807	ALL	UCART2	480590.5	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-05
808	ALL	UCART2	480670.9	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-05
809	ALL	UCART2	480751.4	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-05
810	ALL	UCART2	480831.8	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-05
811	ALL	UCART2	480912.2	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-05
812	ALL	UCART2	480992.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-05
813	ALL	UCART2	481073	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
814	ALL	UCART2	481153.5	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
815	ALL	UCART2	481233.9	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-05
816	ALL	UCART2	481314.3	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
817	ALL	UCART2	481394.7	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05
818	ALL	UCART2	481475.1	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-05
819	ALL	UCART2	481555.6	3774908	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
820	ALL	UCART2	479947.2	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
821	ALL	UCART2	480027.6	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05
822	ALL	UCART2	480108	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.02E-05
823	ALL	UCART2	480188.4	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-05
824	ALL	UCART2	480268.8	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.88E-05
825	ALL	UCART2	480349.3	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.34E-05
826	ALL	UCART2	480429.7	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-05
827	ALL	UCART2	480510.1	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-05
828	ALL	UCART2	480590.5	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.75E-05
829	ALL	UCART2	480670.9	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-05
830	ALL	UCART2	480751.4	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-05
831	ALL	UCART2	480831.8	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
832	ALL	UCART2	480912.2	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-05
833	ALL	UCART2	480992.6	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-05
834	ALL	UCART2	481073	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-05
835	ALL	UCART2	481153.5	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
836	ALL	UCART2	481233.9	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-05
837	ALL	UCART2	481314.3	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
838	ALL	UCART2	481394.7	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-05
839	ALL	UCART2	481475.1	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
840	ALL	UCART2	481555.6	3774937	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
841	ALL	UCART2	479947.2	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-05
842	ALL	UCART2	480027.6	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
843	ALL	UCART2	480108	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
844	ALL	UCART2	480188.4	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-05
845	ALL	UCART2	480268.8	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
846	ALL	UCART2	480349.3	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-05
847	ALL	UCART2	480429.7	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-05
848	ALL	UCART2	480510.1	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-05
849	ALL	UCART2	480590.5	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-05
850	ALL	UCART2	480670.9	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.95E-05
851	ALL	UCART2	480751.4	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
852	ALL	UCART2	480831.8	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-05
853	ALL	UCART2	480912.2	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.84E-05
854	ALL	UCART2	480992.6	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-05
855	ALL	UCART2	481073	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-05
856	ALL	UCART2	481153.5	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-05
857	ALL	UCART2	481233.9	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-05
858	ALL	UCART2	481314.3	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-05
859	ALL	UCART2	481394.7	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05
860	ALL	UCART2	481475.1	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
861	ALL	UCART2	481555.6	3774966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
862	ALL	UCART2	479947.2	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-05
863	ALL	UCART2	480027.6	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05
864	ALL	UCART2	480108	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-05
865	ALL	UCART2	480188.4	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-05
866	ALL	UCART2	480268.8	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
867	ALL	UCART2	480349.3	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-05
868	ALL	UCART2	480429.7	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-05
869	ALL	UCART2	480510.1	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
870	ALL	UCART2	480590.5	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-05
871	ALL	UCART2	480670.9	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-05
872	ALL	UCART2	480751.4	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-05
873	ALL	UCART2	480831.8	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-05
874	ALL	UCART2	480912.2	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-05
875	ALL	UCART2	480992.6	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.45E-05
876	ALL	UCART2	481073	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.15E-05
877	ALL	UCART2	481153.5	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
878	ALL	UCART2	481233.9	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05
879	ALL	UCART2	481314.3	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.51E-05
880	ALL	UCART2	481394.7	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
881	ALL	UCART2	481475.1	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-05
882	ALL	UCART2	481555.6	3774996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-05
883	ALL		479863.1	3774072	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-02
884	ALL		479886.6	3774070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02
885	ALL		479901.5	3774140	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-03
886	ALL		479777.1	3774147	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-03
887	ALL		479777.5	3774162	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-03

HARP2 - HRACalc (dated 21081) 4/5/2022 6:30:52 AM - 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\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedCancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedCancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedNCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedNCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\Desktop\HARP2\HARP\3rd and
Central\HARP\Operation\hra\Residential-MitigatedNCAcuteRiskSumByRec.csv
HRA ran successfully
```

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_F	EGG_RISK
1	ALL	UCART1	479159.3	3774216	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
2	ALL	UCART1	479197.5	3774216	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
3	ALL	UCART1	479235.8	3774216	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
4	ALL	UCART1	479274.1	3774216	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
5	ALL	UCART1	479312.3	3774216	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
6	ALL	UCART1	479350.6	3774216	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
7	ALL	UCART1	479388.8	3774216	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
8	ALL	UCART1	479427.1	3774216	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
9	ALL	UCART1	479465.4	3774216	3.50E-07	30YrCance	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
10	ALL	UCART1	479503.6	3774216	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
11	ALL	UCART1	479541.9	3774216	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
12	ALL	UCART1	479580.1	3774216	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
13	ALL	UCART1	479618.4	3774216	3.08E-07	30YrCance	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
14	ALL	UCART1	479656.7	3774216	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
15	ALL	UCART1	479694.9	3774216	3.00E-07	30YrCance	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
16	ALL	UCART1	479733.2	3774216	3.00E-07	30YrCance	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
17	ALL	UCART1	479771.4	3774216	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
18	ALL	UCART1	479809.7	3774216	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
19	ALL	UCART1	479848	3774216	2.92E-07	30YrCance	2.92E-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
20	ALL	UCART1	479886.2	3774216	2.92E-07	30YrCance	2.92E-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
21	ALL	UCART1	479924.5	3774216	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
22	ALL	UCART1	479159.3	3774245	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
23	ALL	UCART1	479197.5	3774245	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
24	ALL	UCART1	479235.8	3774245	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
25	ALL	UCART1	479274.1	3774245	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
26	ALL	UCART1	479312.3	3774245	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
27	ALL	UCART1	479350.6	3774245	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
28	ALL	UCART1	479388.8	3774245	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
29	ALL	UCART1	479427.1	3774245	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
30	ALL	UCART1	479465.4	3774245	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
31	ALL	UCART1	479503.6	3774245	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
32	ALL	UCART1	479541.9	3774245	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
33	ALL	UCART1	479580.1	3774245	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
34	ALL	UCART1	479618.4	3774245	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
35	ALL	UCART1	479656.7	3774245	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
36	ALL	UCART1	479694.9	3774245	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
37	ALL	UCART1	479733.2	3774245	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
38	ALL	UCART1	479771.4	3774245	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
39	ALL	UCART1	479809.7	3774245	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
40	ALL	UCART1	479848	3774245	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
41	ALL	UCART1	479886.2	3774245	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
42	ALL	UCART1	479924.5	3774245	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
43	ALL	UCART1	479159.3	3774275	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
44	ALL	UCART1	479197.5	3774275	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
45	ALL	UCART1	479235.8	3774275	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
46	ALL	UCART1	479274.1	3774275	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
47	ALL	UCART1	479312.3	3774275	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
48	ALL	UCART1	479350.6	3774275	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
49	ALL	UCART1	479388.8	3774275	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
50	ALL	UCART1	479427.1	3774275	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
51	ALL	UCART1	479465.4	3774275	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
52	ALL	UCART1	479503.6	3774275	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
53	ALL	UCART1	479541.9	3774275	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
54	ALL	UCART1	479580.1	3774275	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
55	ALL	UCART1	479618.4	3774275	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
56	ALL	UCART1	479656.7	3774275	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
57	ALL	UCART1	479694.9	3774275	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
58	ALL	UCART1	479733.2	3774275	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
59	ALL	UCART1	479771.4	3774275	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
60	ALL	UCART1	479809.7	3774275	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
61	ALL	UCART1	479848	3774275	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
62	ALL	UCART1	479886.2	3774275	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
63	ALL	UCART1	479924.5	3774275	1.26E-07	30YrCance	1.26E-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
64	ALL	UCART1	479159.3	3774305	1.26E-07	30YrCance	1.26E-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
65	ALL	UCART1	479197.5	3774305	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
66	ALL	UCART1	479235.8	3774305	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
67	ALL	UCART1	479274.1	3774305	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
68	ALL	UCART1	479312.3	3774305	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
69	ALL	UCART1	479350.6	3774305	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
70	ALL	UCART1	479388.8	3774305	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
71	ALL	UCART1	479427.1	3774305	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
72	ALL	UCART1	479465.4	3774305	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
73	ALL	UCART1	479503.6	3774305	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
74	ALL	UCART1	479541.9	3774305	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
75	ALL	UCART1	479580.1	3774305	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
76	ALL	UCART1	479618.4	3774305	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
77	ALL	UCART1	479656.7	3774305	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
78	ALL	UCART1	479694.9	3774305	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
79	ALL	UCART1	479733.2	3774305	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
80	ALL	UCART1	479771.4	3774305	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
81	ALL	UCART1	479809.7	3774305	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
82	ALL	UCART1	479848	3774305	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
83	ALL	UCART1	479886.2	3774305	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
84	ALL	UCART1	479924.5	3774305	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
85	ALL	UCART1	479159.3	3774334	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
86	ALL	UCART1	479197.5	3774334	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
87	ALL	UCART1	479235.8	3774334	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
88	ALL	UCART1	479274.1	3774334	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
89	ALL	UCART1	479312.3	3774334	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
90	ALL	UCART1	479350.6	3774334	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

91	ALL	UCART1	479388.8	3774334	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
92	ALL	UCART1	479427.1	3774334	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
93	ALL	UCART1	479465.4	3774334	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
94	ALL	UCART1	479503.6	3774334	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
95	ALL	UCART1	479541.9	3774334	9.86E-08	30YrCance	9.86E-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
96	ALL	UCART1	479580.1	3774334	9.58E-08	30YrCance	9.58E-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
97	ALL	UCART1	479618.4	3774334	9.32E-08	30YrCance	9.32E-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
98	ALL	UCART1	479656.7	3774334	9.18E-08	30YrCance	9.18E-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
99	ALL	UCART1	479694.9	3774334	9.12E-08	30YrCance	9.12E-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
100	ALL	UCART1	479733.2	3774334	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
101	ALL	UCART1	479771.4	3774334	9.02E-08	30YrCance	9.02E-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
102	ALL	UCART1	479809.7	3774334	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
103	ALL	UCART1	479848	3774334	8.78E-08	30YrCance	8.78E-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
104	ALL	UCART1	479886.2	3774334	8.72E-08	30YrCance	8.72E-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
105	ALL	UCART1	479924.5	3774334	8.64E-08	30YrCance	8.64E-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
106	ALL	UCART1	479159.3	3774364	9.69E-08	30YrCance	9.69E-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
107	ALL	UCART1	479197.5	3774364	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
108	ALL	UCART1	479235.8	3774364	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
109	ALL	UCART1	479274.1	3774364	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
110	ALL	UCART1	479312.3	3774364	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
111	ALL	UCART1	479350.6	3774364	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
112	ALL	UCART1	479388.8	3774364	9.87E-08	30YrCance	9.87E-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
113	ALL	UCART1	479427.1	3774364	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
114	ALL	UCART1	479465.4	3774364	9.21E-08	30YrCance	9.21E-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
115	ALL	UCART1	479503.6	3774364	8.86E-08	30YrCance	8.86E-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
116	ALL	UCART1	479541.9	3774364	8.56E-08	30YrCance	8.56E-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
117	ALL	UCART1	479580.1	3774364	8.34E-08	30YrCance	8.34E-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
118	ALL	UCART1	479618.4	3774364	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
119	ALL	UCART1	479656.7	3774364	8.07E-08	30YrCance	8.07E-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
120	ALL	UCART1	479694.9	3774364	8.01E-08	30YrCance	8.01E-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
121	ALL	UCART1	479733.2	3774364	7.97E-08	30YrCance	7.97E-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
122	ALL	UCART1	479771.4	3774364	7.86E-08	30YrCance	7.86E-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
123	ALL	UCART1	479809.7	3774364	7.71E-08	30YrCance	7.71E-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
124	ALL	UCART1	479848	3774364	7.66E-08	30YrCance	7.66E-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
125	ALL	UCART1	479886.2	3774364	7.59E-08	30YrCance	7.59E-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
126	ALL	UCART1	479924.5	3774364	7.51E-08	30YrCance	7.51E-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
127	ALL	UCART1	479159.3	3774394	8.58E-08	30YrCance	8.58E-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
128	ALL	UCART1	479197.5	3774394	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
129	ALL	UCART1	479235.8	3774394	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
130	ALL	UCART1	479274.1	3774394	8.99E-08	30YrCance	8.99E-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
131	ALL	UCART1	479312.3	3774394	8.90E-08	30YrCance	8.90E-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
132	ALL	UCART1	479350.6	3774394	8.76E-08	30YrCance	8.76E-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
133	ALL	UCART1	479388.8	3774394	8.53E-08	30YrCance	8.53E-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
134	ALL	UCART1	479427.1	3774394	8.28E-08	30YrCance	8.28E-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
135	ALL	UCART1	479465.4	3774394	8.01E-08	30YrCance	8.01E-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
136	ALL	UCART1	479503.6	3774394	7.76E-08	30YrCance	7.76E-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
137	ALL	UCART1	479541.9	3774394	7.56E-08	30YrCance	7.56E-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
138	ALL	UCART1	479580.1	3774394	7.40E-08	30YrCance	7.40E-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
139	ALL	UCART1	479618.4	3774394	7.27E-08	30YrCance	7.27E-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
140	ALL	UCART1	479656.7	3774394	7.17E-08	30YrCance	7.17E-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
141	ALL	UCART1	479694.9	3774394	7.11E-08	30YrCance	7.11E-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
142	ALL	UCART1	479733.2	3774394	7.02E-08	30YrCance	7.02E-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
143	ALL	UCART1	479771.4	3774394	6.96E-08	30YrCance	6.96E-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
144	ALL	UCART1	479809.7	3774394	6.85E-08	30YrCance	6.85E-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
145	ALL	UCART1	479848	3774394	6.81E-08	30YrCance	6.81E-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
146	ALL	UCART1	479886.2	3774394	6.73E-08	30YrCance	6.73E-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
147	ALL	UCART1	479924.5	3774394	6.66E-08	30YrCance	6.66E-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
148	ALL	UCART1	479159.3	3774423	7.61E-08	30YrCance	7.61E-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
149	ALL	UCART1	479197.5	3774423	7.77E-08	30YrCance	7.77E-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
150	ALL	UCART1	479235.8	3774423	7.84E-08	30YrCance	7.84E-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
151	ALL	UCART1	479274.1	3774423	7.84E-08	30YrCance	7.84E-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
152	ALL	UCART1	479312.3	3774423	7.76E-08	30YrCance	7.76E-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
153	ALL	UCART1	479350.6	3774423	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
154	ALL	UCART1	479388.8	3774423	7.46E-08	30YrCance	7.46E-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
155	ALL	UCART1	479427.1	3774423	7.26E-08	30YrCance	7.26E-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
156	ALL	UCART1	479465.4	3774423	7.06E-08	30YrCance	7.06E-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
157	ALL	UCART1	479503.6	3774423	6.89E-08	30YrCance	6.89E-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
158	ALL	UCART1	479541.9	3774423	6.75E-08	30YrCance	6.75E-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
159	ALL	UCART1	479580.1	3774423	6.64E-08	30YrCance	6.64E-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
160	ALL	UCART1	479618.4	3774423	6.56E-08	30YrCance	6.56E-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
161	ALL	UCART1	479656.7	3774423	6.48E-08	30YrCance	6.48E-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
162	ALL	UCART1	479694.9	3774423	6.41E-08	30YrCance	6.41E-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
163	ALL	UCART1	479733.2	3774423	6.34E-08	30YrCance	6.34E-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
164	ALL	UCART1	479771.4	3774423	6.27E-08	30YrCance	6.27E-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
165	ALL	UCART1	479809.7	3774423	6.20E-08	30YrCance	6.20E-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
166	ALL	UCART1	479848	3774423	6.14E-08	30YrCance	6.14E-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
167	ALL	UCART1	479886.2	3774423	6.07E-08	30YrCance	6.07E-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
168	ALL	UCART1	479924.5	3774423	5.98E-08	30YrCance	5.98E-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
169	ALL	UCART1	479159.3	3774453	6.76E-08	30YrCance	6.76E-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
170	ALL	UCART1	479197.5	3774453	6.86E-08	30YrCance	6.86E-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
171	ALL	UCART1	479235.8	3774453	6.90E-08	30YrCance	6.90E-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
172	ALL	UCART1	479274.1	3774453	6.89E-08	30YrCance	6.89E-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
173	ALL	UCART1	479312.3	3774453	6.81E-08	30YrCance	6.81E-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
174	ALL	UCART1	479350.6	3774453	6.73E-08	30YrCance	6.73E-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
175	ALL	UCART1	479388.8	3774453	6.60E-08	30YrCance	6.60E-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
176	ALL	UCART1	479427.1	3774453	6.45E-08	30YrCance	6.45E-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
177	ALL	UCART1	479465.4	3774453	6.30E-08	30YrCance	6.30E-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
178	ALL	UCART1	479503.6	3774453	6.18E-08	30YrCance	6.18E-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
179	ALL	UCART1	479541.9	3774453	6.09E-08	30YrCance	6.09E-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
180	ALL	UCART1	479580.1	3774453	6.01E-08	30YrCance	6.01E-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
181	ALL	UCART1	479618.4	3774453	5.94E-08	30YrCance	5.94E-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

182	ALL	UCART1	479656.7	3774453	5.88E-08	30YrCance	5.88E-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
183	ALL	UCART1	479694.9	3774453	5.82E-08	30YrCance	5.82E-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
184	ALL	UCART1	479733.2	3774453	5.75E-08	30YrCance	5.75E-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
185	ALL	UCART1	479771.4	3774453	5.68E-08	30YrCance	5.68E-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
186	ALL	UCART1	479809.7	3774453	5.62E-08	30YrCance	5.62E-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
187	ALL	UCART1	479848	3774453	5.55E-08	30YrCance	5.55E-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
188	ALL	UCART1	479886.2	3774453	5.49E-08	30YrCance	5.49E-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
189	ALL	UCART1	479924.5	3774453	5.40E-08	30YrCance	5.40E-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
190	ALL	UCART1	479159.3	3774483	6.03E-08	30YrCance	6.03E-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
191	ALL	UCART1	479197.5	3774483	6.10E-08	30YrCance	6.10E-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
192	ALL	UCART1	479235.8	3774483	6.12E-08	30YrCance	6.12E-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
193	ALL	UCART1	479274.1	3774483	6.10E-08	30YrCance	6.10E-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
194	ALL	UCART1	479312.3	3774483	6.04E-08	30YrCance	6.04E-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
195	ALL	UCART1	479350.6	3774483	5.97E-08	30YrCance	5.97E-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
196	ALL	UCART1	479388.8	3774483	5.87E-08	30YrCance	5.87E-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
197	ALL	UCART1	479427.1	3774483	5.75E-08	30YrCance	5.75E-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
198	ALL	UCART1	479465.4	3774483	5.66E-08	30YrCance	5.66E-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
199	ALL	UCART1	479503.6	3774483	5.59E-08	30YrCance	5.59E-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
200	ALL	UCART1	479541.9	3774483	5.54E-08	30YrCance	5.54E-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
201	ALL	UCART1	479580.1	3774483	5.49E-08	30YrCance	5.49E-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
202	ALL	UCART1	479618.4	3774483	5.43E-08	30YrCance	5.43E-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
203	ALL	UCART1	479656.7	3774483	5.40E-08	30YrCance	5.40E-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
204	ALL	UCART1	479694.9	3774483	5.37E-08	30YrCance	5.37E-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
205	ALL	UCART1	479733.2	3774483	5.30E-08	30YrCance	5.30E-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
206	ALL	UCART1	479771.4	3774483	5.20E-08	30YrCance	5.20E-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
207	ALL	UCART1	479809.7	3774483	5.13E-08	30YrCance	5.13E-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
208	ALL	UCART1	479848	3774483	5.08E-08	30YrCance	5.08E-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
209	ALL	UCART1	479886.2	3774483	5.01E-08	30YrCance	5.01E-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
210	ALL	UCART1	479924.5	3774483	4.93E-08	30YrCance	4.93E-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
211	ALL	UCART1	479159.3	3774512	5.40E-08	30YrCance	5.40E-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
212	ALL	UCART1	479197.5	3774512	5.44E-08	30YrCance	5.44E-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
213	ALL	UCART1	479235.8	3774512	5.46E-08	30YrCance	5.46E-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
214	ALL	UCART1	479274.1	3774512	5.45E-08	30YrCance	5.45E-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
215	ALL	UCART1	479312.3	3774512	5.40E-08	30YrCance	5.40E-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
216	ALL	UCART1	479350.6	3774512	5.35E-08	30YrCance	5.35E-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
217	ALL	UCART1	479388.8	3774512	5.26E-08	30YrCance	5.26E-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
218	ALL	UCART1	479427.1	3774512	5.19E-08	30YrCance	5.19E-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
219	ALL	UCART1	479465.4	3774512	5.13E-08	30YrCance	5.13E-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
220	ALL	UCART1	479503.6	3774512	5.09E-08	30YrCance	5.09E-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
221	ALL	UCART1	479541.9	3774512	5.07E-08	30YrCance	5.07E-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
222	ALL	UCART1	479580.1	3774512	5.05E-08	30YrCance	5.05E-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
223	ALL	UCART1	479618.4	3774512	5.02E-08	30YrCance	5.02E-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
224	ALL	UCART1	479656.7	3774512	4.99E-08	30YrCance	4.99E-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
225	ALL	UCART1	479694.9	3774512	4.96E-08	30YrCance	4.96E-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
226	ALL	UCART1	479733.2	3774512	4.89E-08	30YrCance	4.89E-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
227	ALL	UCART1	479771.4	3774512	4.78E-08	30YrCance	4.78E-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
228	ALL	UCART1	479809.7	3774512	4.72E-08	30YrCance	4.72E-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
229	ALL	UCART1	479848	3774512	4.66E-08	30YrCance	4.66E-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
230	ALL	UCART1	479886.2	3774512	4.60E-08	30YrCance	4.60E-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
231	ALL	UCART1	479924.5	3774512	4.53E-08	30YrCance	4.53E-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
232	ALL	UCART1	479159.3	3774542	4.87E-08	30YrCance	4.87E-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
233	ALL	UCART1	479197.5	3774542	4.89E-08	30YrCance	4.89E-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
234	ALL	UCART1	479235.8	3774542	4.90E-08	30YrCance	4.90E-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
235	ALL	UCART1	479274.1	3774542	4.89E-08	30YrCance	4.89E-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
236	ALL	UCART1	479312.3	3774542	4.86E-08	30YrCance	4.86E-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
237	ALL	UCART1	479350.6	3774542	4.82E-08	30YrCance	4.82E-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
238	ALL	UCART1	479388.8	3774542	4.75E-08	30YrCance	4.75E-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
239	ALL	UCART1	479427.1	3774542	4.73E-08	30YrCance	4.73E-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
240	ALL	UCART1	479465.4	3774542	4.70E-08	30YrCance	4.70E-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
241	ALL	UCART1	479503.6	3774542	4.68E-08	30YrCance	4.68E-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
242	ALL	UCART1	479541.9	3774542	4.67E-08	30YrCance	4.67E-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
243	ALL	UCART1	479580.1	3774542	4.66E-08	30YrCance	4.66E-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
244	ALL	UCART1	479618.4	3774542	4.62E-08	30YrCance	4.62E-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
245	ALL	UCART1	479656.7	3774542	4.58E-08	30YrCance	4.58E-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
246	ALL	UCART1	479694.9	3774542	4.58E-08	30YrCance	4.58E-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
247	ALL	UCART1	479733.2	3774542	4.52E-08	30YrCance	4.52E-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
248	ALL	UCART1	479771.4	3774542	4.42E-08	30YrCance	4.42E-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
249	ALL	UCART1	479809.7	3774542	4.36E-08	30YrCance	4.36E-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
250	ALL	UCART1	479848	3774542	4.30E-08	30YrCance	4.30E-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
251	ALL	UCART1	479886.2	3774542	4.25E-08	30YrCance	4.25E-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
252	ALL	UCART1	479924.5	3774542	4.19E-08	30YrCance	4.19E-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
253	ALL	UCART1	479159.3	3774572	4.40E-08	30YrCance	4.40E-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
254	ALL	UCART1	479197.5	3774572	4.42E-08	30YrCance	4.42E-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
255	ALL	UCART1	479235.8	3774572	4.42E-08	30YrCance	4.42E-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
256	ALL	UCART1	479274.1	3774572	4.41E-08	30YrCance	4.41E-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
257	ALL	UCART1	479312.3	3774572	4.39E-08	30YrCance	4.39E-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
258	ALL	UCART1	479350.6	3774572	4.37E-08	30YrCance	4.37E-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
259	ALL	UCART1	479388.8	3774572	4.33E-08	30YrCance	4.33E-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
260	ALL	UCART1	479427.1	3774572	4.32E-08	30YrCance	4.32E-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
261	ALL	UCART1	479465.4	3774572	4.32E-08	30YrCance	4.32E-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
262	ALL	UCART1	479503.6	3774572	4.32E-08	30YrCance	4.32E-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
263	ALL	UCART1	479541.9	3774572	4.31E-08	30YrCance	4.31E-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
264	ALL	UCART1	479580.1	3774572	4.32E-08	30YrCance	4.32E-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
265	ALL	UCART1	479618.4	3774572	4.30E-08	30YrCance	4.30E-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
266	ALL	UCART1	479656.7	3774572	4.25E-08	30YrCance	4.25E-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
267	ALL	UCART1	479694.9	3774572	4.24E-08	30YrCance	4.24E-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
268	ALL	UCART1	479733.2	3774572	4.19E-08	30YrCance	4.19E-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
269	ALL	UCART1	479771.4	3774572	4.10E-08	30YrCance	4.10E-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
270	ALL	UCART1	479809.7	3774572	4.05E-08	30YrCance	4.05E-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
271	ALL	UCART1	479848	3774572	4.00E-08	30YrCance	4.00E-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
272	ALL	UCART1	479886.2	3774572	3.95E-08	30YrCance	3.95E-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

273	ALL	UCART1	479924.5	3774572	3.89E-08	30YrCance	3.89E-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
274	ALL	UCART1	479159.3	3774601	3.99E-08	30YrCance	3.99E-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
275	ALL	UCART1	479197.5	3774601	4.01E-08	30YrCance	4.01E-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
276	ALL	UCART1	479235.8	3774601	4.02E-08	30YrCance	4.02E-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
277	ALL	UCART1	479274.1	3774601	4.02E-08	30YrCance	4.02E-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
278	ALL	UCART1	479312.3	3774601	4.00E-08	30YrCance	4.00E-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
279	ALL	UCART1	479350.6	3774601	4.00E-08	30YrCance	4.00E-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
280	ALL	UCART1	479388.8	3774601	3.97E-08	30YrCance	3.97E-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
281	ALL	UCART1	479427.1	3774601	3.98E-08	30YrCance	3.98E-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
282	ALL	UCART1	479465.4	3774601	3.98E-08	30YrCance	3.98E-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
283	ALL	UCART1	479503.6	3774601	3.99E-08	30YrCance	3.99E-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
284	ALL	UCART1	479541.9	3774601	4.01E-08	30YrCance	4.01E-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
285	ALL	UCART1	479580.1	3774601	4.02E-08	30YrCance	4.02E-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
286	ALL	UCART1	479618.4	3774601	4.01E-08	30YrCance	4.01E-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
287	ALL	UCART1	479656.7	3774601	3.95E-08	30YrCance	3.95E-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
288	ALL	UCART1	479694.9	3774601	3.95E-08	30YrCance	3.95E-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
289	ALL	UCART1	479733.2	3774601	3.90E-08	30YrCance	3.90E-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
290	ALL	UCART1	479771.4	3774601	3.81E-08	30YrCance	3.81E-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
291	ALL	UCART1	479809.7	3774601	3.77E-08	30YrCance	3.77E-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
292	ALL	UCART1	479848	3774601	3.72E-08	30YrCance	3.72E-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
293	ALL	UCART1	479886.2	3774601	3.68E-08	30YrCance	3.68E-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
294	ALL	UCART1	479924.5	3774601	3.63E-08	30YrCance	3.63E-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
295	ALL	UCART1	479159.3	3774631	3.64E-08	30YrCance	3.64E-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
296	ALL	UCART1	479197.5	3774631	3.66E-08	30YrCance	3.66E-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
297	ALL	UCART1	479235.8	3774631	3.67E-08	30YrCance	3.67E-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
298	ALL	UCART1	479274.1	3774631	3.67E-08	30YrCance	3.67E-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
299	ALL	UCART1	479312.3	3774631	3.67E-08	30YrCance	3.67E-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
300	ALL	UCART1	479350.6	3774631	3.67E-08	30YrCance	3.67E-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
301	ALL	UCART1	479388.8	3774631	3.67E-08	30YrCance	3.67E-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
302	ALL	UCART1	479427.1	3774631	3.68E-08	30YrCance	3.68E-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
303	ALL	UCART1	479465.4	3774631	3.70E-08	30YrCance	3.70E-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
304	ALL	UCART1	479503.6	3774631	3.72E-08	30YrCance	3.72E-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
305	ALL	UCART1	479541.9	3774631	3.73E-08	30YrCance	3.73E-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
306	ALL	UCART1	479580.1	3774631	3.75E-08	30YrCance	3.75E-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
307	ALL	UCART1	479618.4	3774631	3.74E-08	30YrCance	3.74E-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
308	ALL	UCART1	479656.7	3774631	3.71E-08	30YrCance	3.71E-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
309	ALL	UCART1	479694.9	3774631	3.69E-08	30YrCance	3.69E-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
310	ALL	UCART1	479733.2	3774631	3.63E-08	30YrCance	3.63E-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
311	ALL	UCART1	479771.4	3774631	3.57E-08	30YrCance	3.57E-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
312	ALL	UCART1	479809.7	3774631	3.54E-08	30YrCance	3.54E-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
313	ALL	UCART1	479848	3774631	3.49E-08	30YrCance	3.49E-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
314	ALL	UCART1	479886.2	3774631	3.44E-08	30YrCance	3.44E-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
315	ALL	UCART1	479924.5	3774631	3.39E-08	30YrCance	3.39E-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
316	ALL	UCART1	479159.3	3774661	3.35E-08	30YrCance	3.35E-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
317	ALL	UCART1	479197.5	3774661	3.36E-08	30YrCance	3.36E-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
318	ALL	UCART1	479235.8	3774661	3.37E-08	30YrCance	3.37E-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
319	ALL	UCART1	479274.1	3774661	3.38E-08	30YrCance	3.38E-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
320	ALL	UCART1	479312.3	3774661	3.40E-08	30YrCance	3.40E-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
321	ALL	UCART1	479350.6	3774661	3.41E-08	30YrCance	3.41E-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
322	ALL	UCART1	479388.8	3774661	3.41E-08	30YrCance	3.41E-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
323	ALL	UCART1	479427.1	3774661	3.43E-08	30YrCance	3.43E-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
324	ALL	UCART1	479465.4	3774661	3.46E-08	30YrCance	3.46E-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
325	ALL	UCART1	479503.6	3774661	3.48E-08	30YrCance	3.48E-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
326	ALL	UCART1	479541.9	3774661	3.49E-08	30YrCance	3.49E-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
327	ALL	UCART1	479580.1	3774661	3.51E-08	30YrCance	3.51E-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
328	ALL	UCART1	479618.4	3774661	3.50E-08	30YrCance	3.50E-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
329	ALL	UCART1	479656.7	3774661	3.46E-08	30YrCance	3.46E-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
330	ALL	UCART1	479694.9	3774661	3.44E-08	30YrCance	3.44E-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
331	ALL	UCART1	479733.2	3774661	3.39E-08	30YrCance	3.39E-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
332	ALL	UCART1	479771.4	3774661	3.35E-08	30YrCance	3.35E-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
333	ALL	UCART1	479809.7	3774661	3.30E-08	30YrCance	3.30E-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
334	ALL	UCART1	479848	3774661	3.26E-08	30YrCance	3.26E-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
335	ALL	UCART1	479886.2	3774661	3.22E-08	30YrCance	3.22E-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
336	ALL	UCART1	479924.5	3774661	3.17E-08	30YrCance	3.17E-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
337	ALL	UCART1	479159.3	3774690	3.09E-08	30YrCance	3.09E-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
338	ALL	UCART1	479197.5	3774690	3.11E-08	30YrCance	3.11E-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
339	ALL	UCART1	479235.8	3774690	3.12E-08	30YrCance	3.12E-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
340	ALL	UCART1	479274.1	3774690	3.13E-08	30YrCance	3.13E-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
341	ALL	UCART1	479312.3	3774690	3.15E-08	30YrCance	3.15E-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
342	ALL	UCART1	479350.6	3774690	3.17E-08	30YrCance	3.17E-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
343	ALL	UCART1	479388.8	3774690	3.18E-08	30YrCance	3.18E-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
344	ALL	UCART1	479427.1	3774690	3.21E-08	30YrCance	3.21E-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
345	ALL	UCART1	479465.4	3774690	3.24E-08	30YrCance	3.24E-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
346	ALL	UCART1	479503.6	3774690	3.26E-08	30YrCance	3.26E-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
347	ALL	UCART1	479541.9	3774690	3.28E-08	30YrCance	3.28E-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
348	ALL	UCART1	479580.1	3774690	3.28E-08	30YrCance	3.28E-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
349	ALL	UCART1	479618.4	3774690	3.26E-08	30YrCance	3.26E-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
350	ALL	UCART1	479656.7	3774690	3.23E-08	30YrCance	3.23E-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
351	ALL	UCART1	479694.9	3774690	3.22E-08	30YrCance	3.22E-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
352	ALL	UCART1	479733.2	3774690	3.18E-08	30YrCance	3.18E-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
353	ALL	UCART1	479771.4	3774690	3.13E-08	30YrCance	3.13E-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
354	ALL	UCART1	479809.7	3774690	3.09E-08	30YrCance	3.09E-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
355	ALL	UCART1	479848	3774690	3.05E-08	30YrCance	3.05E-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
356	ALL	UCART1	479886.2	3774690	3.00E-08	30YrCance	3.00E-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
357	ALL	UCART1	479924.5	3774690	2.97E-08	30YrCance	2.97E-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
358	ALL	UCART1	479159.3	3774720	2.86E-08	30YrCance	2.86E-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
359	ALL	UCART1	479197.5	3774720	2.88E-08	30YrCance	2.88E-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
360	ALL	UCART1	479235.8	3774720	2.90E-08	30YrCance	2.90E-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
361	ALL	UCART1	479274.1	3774720	2.92E-08	30YrCance	2.92E-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
362	ALL	UCART1	479312.3	3774720	2.94E-08	30YrCance	2.94E-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
363	ALL	UCART1	479350.6	3774720	2.96E-08	30YrCance	2.96E-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

364	ALL	UCART1	479388.8	3774720	2.98E-08	30YrCance	2.98E-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
365	ALL	UCART1	479427.1	3774720	3.00E-08	30YrCance	3.00E-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
366	ALL	UCART1	479465.4	3774720	3.03E-08	30YrCance	3.03E-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
367	ALL	UCART1	479503.6	3774720	3.06E-08	30YrCance	3.06E-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
368	ALL	UCART1	479541.9	3774720	3.08E-08	30YrCance	3.08E-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
369	ALL	UCART1	479580.1	3774720	3.09E-08	30YrCance	3.09E-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
370	ALL	UCART1	479618.4	3774720	3.07E-08	30YrCance	3.07E-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
371	ALL	UCART1	479656.7	3774720	3.04E-08	30YrCance	3.04E-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
372	ALL	UCART1	479694.9	3774720	3.02E-08	30YrCance	3.02E-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
373	ALL	UCART1	479733.2	3774720	2.99E-08	30YrCance	2.99E-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
374	ALL	UCART1	479771.4	3774720	2.92E-08	30YrCance	2.92E-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
375	ALL	UCART1	479809.7	3774720	2.90E-08	30YrCance	2.90E-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
376	ALL	UCART1	479848	3774720	2.86E-08	30YrCance	2.86E-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
377	ALL	UCART1	479886.2	3774720	2.82E-08	30YrCance	2.82E-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
378	ALL	UCART1	479924.5	3774720	2.79E-08	30YrCance	2.79E-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
379	ALL	UCART1	479159.3	3774750	2.67E-08	30YrCance	2.67E-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
380	ALL	UCART1	479197.5	3774750	2.69E-08	30YrCance	2.69E-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
381	ALL	UCART1	479235.8	3774750	2.71E-08	30YrCance	2.71E-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
382	ALL	UCART1	479274.1	3774750	2.73E-08	30YrCance	2.73E-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
383	ALL	UCART1	479312.3	3774750	2.75E-08	30YrCance	2.75E-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
384	ALL	UCART1	479350.6	3774750	2.78E-08	30YrCance	2.78E-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
385	ALL	UCART1	479388.8	3774750	2.80E-08	30YrCance	2.80E-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
386	ALL	UCART1	479427.1	3774750	2.83E-08	30YrCance	2.83E-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
387	ALL	UCART1	479465.4	3774750	2.86E-08	30YrCance	2.86E-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
388	ALL	UCART1	479503.6	3774750	2.88E-08	30YrCance	2.88E-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
389	ALL	UCART1	479541.9	3774750	2.89E-08	30YrCance	2.89E-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
390	ALL	UCART1	479580.1	3774750	2.89E-08	30YrCance	2.89E-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
391	ALL	UCART1	479618.4	3774750	2.87E-08	30YrCance	2.87E-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
392	ALL	UCART1	479656.7	3774750	2.85E-08	30YrCance	2.85E-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
393	ALL	UCART1	479694.9	3774750	2.83E-08	30YrCance	2.83E-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
394	ALL	UCART1	479733.2	3774750	2.81E-08	30YrCance	2.81E-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
395	ALL	UCART1	479771.4	3774750	2.76E-08	30YrCance	2.76E-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
396	ALL	UCART1	479809.7	3774750	2.73E-08	30YrCance	2.73E-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
397	ALL	UCART1	479848	3774750	2.70E-08	30YrCance	2.70E-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
398	ALL	UCART1	479886.2	3774750	2.66E-08	30YrCance	2.66E-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
399	ALL	UCART1	479924.5	3774750	2.63E-08	30YrCance	2.63E-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
400	ALL	UCART1	479159.3	3774779	2.49E-08	30YrCance	2.49E-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
401	ALL	UCART1	479197.5	3774779	2.51E-08	30YrCance	2.51E-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
402	ALL	UCART1	479235.8	3774779	2.54E-08	30YrCance	2.54E-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
403	ALL	UCART1	479274.1	3774779	2.56E-08	30YrCance	2.56E-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
404	ALL	UCART1	479312.3	3774779	2.58E-08	30YrCance	2.58E-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
405	ALL	UCART1	479350.6	3774779	2.61E-08	30YrCance	2.61E-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
406	ALL	UCART1	479388.8	3774779	2.64E-08	30YrCance	2.64E-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
407	ALL	UCART1	479427.1	3774779	2.66E-08	30YrCance	2.66E-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
408	ALL	UCART1	479465.4	3774779	2.69E-08	30YrCance	2.69E-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
409	ALL	UCART1	479503.6	3774779	2.71E-08	30YrCance	2.71E-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
410	ALL	UCART1	479541.9	3774779	2.73E-08	30YrCance	2.73E-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
411	ALL	UCART1	479580.1	3774779	2.71E-08	30YrCance	2.71E-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
412	ALL	UCART1	479618.4	3774779	2.70E-08	30YrCance	2.70E-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
413	ALL	UCART1	479656.7	3774779	2.69E-08	30YrCance	2.69E-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
414	ALL	UCART1	479694.9	3774779	2.67E-08	30YrCance	2.67E-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
415	ALL	UCART1	479733.2	3774779	2.65E-08	30YrCance	2.65E-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
416	ALL	UCART1	479771.4	3774779	2.61E-08	30YrCance	2.61E-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
417	ALL	UCART1	479809.7	3774779	2.56E-08	30YrCance	2.56E-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
418	ALL	UCART1	479848	3774779	2.55E-08	30YrCance	2.55E-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
419	ALL	UCART1	479886.2	3774779	2.52E-08	30YrCance	2.52E-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
420	ALL	UCART1	479924.5	3774779	2.49E-08	30YrCance	2.49E-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
421	ALL	UCART1	479159.3	3774809	2.34E-08	30YrCance	2.34E-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
422	ALL	UCART1	479197.5	3774809	2.36E-08	30YrCance	2.36E-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
423	ALL	UCART1	479235.8	3774809	2.38E-08	30YrCance	2.38E-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
424	ALL	UCART1	479274.1	3774809	2.41E-08	30YrCance	2.41E-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
425	ALL	UCART1	479312.3	3774809	2.43E-08	30YrCance	2.43E-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
426	ALL	UCART1	479350.6	3774809	2.46E-08	30YrCance	2.46E-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
427	ALL	UCART1	479388.8	3774809	2.49E-08	30YrCance	2.49E-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
428	ALL	UCART1	479427.1	3774809	2.52E-08	30YrCance	2.52E-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
429	ALL	UCART1	479465.4	3774809	2.54E-08	30YrCance	2.54E-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
430	ALL	UCART1	479503.6	3774809	2.56E-08	30YrCance	2.56E-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
431	ALL	UCART1	479541.9	3774809	2.57E-08	30YrCance	2.57E-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
432	ALL	UCART1	479580.1	3774809	2.55E-08	30YrCance	2.55E-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
433	ALL	UCART1	479618.4	3774809	2.54E-08	30YrCance	2.54E-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
434	ALL	UCART1	479656.7	3774809	2.53E-08	30YrCance	2.53E-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
435	ALL	UCART1	479694.9	3774809	2.51E-08	30YrCance	2.51E-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
436	ALL	UCART1	479733.2	3774809	2.50E-08	30YrCance	2.50E-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
437	ALL	UCART1	479771.4	3774809	2.47E-08	30YrCance	2.47E-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
438	ALL	UCART1	479809.7	3774809	2.44E-08	30YrCance	2.44E-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
439	ALL	UCART1	479848	3774809	2.42E-08	30YrCance	2.42E-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
440	ALL	UCART1	479886.2	3774809	2.39E-08	30YrCance	2.39E-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
441	ALL	UCART1	479924.5	3774809	2.36E-08	30YrCance	2.36E-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
442	ALL	UCART2	479959.7	3774402	6.41E-08	30YrCance	6.41E-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
443	ALL	UCART2	480038.8	3774402	6.24E-08	30YrCance	6.24E-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
444	ALL	UCART2	480117.8	3774402	5.98E-08	30YrCance	5.98E-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
445	ALL	UCART2	480196.9	3774402	5.75E-08	30YrCance	5.75E-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
446	ALL	UCART2	480276	3774402	5.49E-08	30YrCance	5.49E-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
447	ALL	UCART2	480355	3774402	5.26E-08	30YrCance	5.26E-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
448	ALL	UCART2	480434.1	3774402	4.99E-08	30YrCance	4.99E-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
449	ALL	UCART2	480513.2	3774402	4.71E-08	30YrCance	4.71E-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
450	ALL	UCART2	480592.3	3774402	4.48E-08	30YrCance	4.48E-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
451	ALL	UCART2	480671.3	3774402	4.27E-08	30YrCance	4.27E-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
452	ALL	UCART2	480750.4	3774402	4.06E-08	30YrCance	4.06E-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
453	ALL	UCART2	480829.5	3774402	3.91E-08	30YrCance	3.91E-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
454	ALL	UCART2	480908.5	3774402	3.75E-08	30YrCance	3.75E-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

455	ALL	UCART2	480987.6	3774402	3.60E-08	30YrCance	3.60E-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
456	ALL	UCART2	481066.7	3774402	3.46E-08	30YrCance	3.46E-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
457	ALL	UCART2	481145.7	3774402	3.33E-08	30YrCance	3.33E-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
458	ALL	UCART2	481224.8	3774402	3.21E-08	30YrCance	3.21E-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
459	ALL	UCART2	481303.9	3774402	3.09E-08	30YrCance	3.09E-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
460	ALL	UCART2	481383	3774402	2.95E-08	30YrCance	2.95E-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
461	ALL	UCART2	481462	3774402	2.73E-08	30YrCance	2.73E-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
462	ALL	UCART2	481541.1	3774402	2.59E-08	30YrCance	2.59E-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
463	ALL	UCART2	479959.7	3774421	5.94E-08	30YrCance	5.94E-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
464	ALL	UCART2	480038.8	3774421	5.81E-08	30YrCance	5.81E-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
465	ALL	UCART2	480117.8	3774421	5.56E-08	30YrCance	5.56E-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
466	ALL	UCART2	480196.9	3774421	5.36E-08	30YrCance	5.36E-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
467	ALL	UCART2	480276	3774421	5.15E-08	30YrCance	5.15E-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
468	ALL	UCART2	480355	3774421	4.87E-08	30YrCance	4.87E-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
469	ALL	UCART2	480434.1	3774421	4.69E-08	30YrCance	4.69E-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
470	ALL	UCART2	480513.2	3774421	4.46E-08	30YrCance	4.46E-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
471	ALL	UCART2	480592.3	3774421	4.24E-08	30YrCance	4.24E-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
472	ALL	UCART2	480671.3	3774421	4.04E-08	30YrCance	4.04E-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
473	ALL	UCART2	480750.4	3774421	3.82E-08	30YrCance	3.82E-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
474	ALL	UCART2	480829.5	3774421	3.69E-08	30YrCance	3.69E-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
475	ALL	UCART2	480908.5	3774421	3.53E-08	30YrCance	3.53E-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
476	ALL	UCART2	480987.6	3774421	3.38E-08	30YrCance	3.38E-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
477	ALL	UCART2	481066.7	3774421	3.25E-08	30YrCance	3.25E-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
478	ALL	UCART2	481145.7	3774421	3.14E-08	30YrCance	3.14E-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
479	ALL	UCART2	481224.8	3774421	3.03E-08	30YrCance	3.03E-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
480	ALL	UCART2	481303.9	3774421	2.91E-08	30YrCance	2.91E-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
481	ALL	UCART2	481383	3774421	2.77E-08	30YrCance	2.77E-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
482	ALL	UCART2	481462	3774421	2.61E-08	30YrCance	2.61E-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
483	ALL	UCART2	481541.1	3774421	2.44E-08	30YrCance	2.44E-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
484	ALL	UCART2	479959.7	3774441	5.55E-08	30YrCance	5.55E-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
485	ALL	UCART2	480038.8	3774441	5.43E-08	30YrCance	5.43E-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
486	ALL	UCART2	480117.8	3774441	5.19E-08	30YrCance	5.19E-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
487	ALL	UCART2	480196.9	3774441	5.01E-08	30YrCance	5.01E-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
488	ALL	UCART2	480276	3774441	4.83E-08	30YrCance	4.83E-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
489	ALL	UCART2	480355	3774441	4.59E-08	30YrCance	4.59E-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
490	ALL	UCART2	480434.1	3774441	4.35E-08	30YrCance	4.35E-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
491	ALL	UCART2	480513.2	3774441	4.17E-08	30YrCance	4.17E-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
492	ALL	UCART2	480592.3	3774441	3.97E-08	30YrCance	3.97E-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
493	ALL	UCART2	480671.3	3774441	3.78E-08	30YrCance	3.78E-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
494	ALL	UCART2	480750.4	3774441	3.60E-08	30YrCance	3.60E-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
495	ALL	UCART2	480829.5	3774441	3.47E-08	30YrCance	3.47E-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
496	ALL	UCART2	480908.5	3774441	3.33E-08	30YrCance	3.33E-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
497	ALL	UCART2	480987.6	3774441	3.20E-08	30YrCance	3.20E-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
498	ALL	UCART2	481066.7	3774441	3.08E-08	30YrCance	3.08E-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
499	ALL	UCART2	481145.7	3774441	2.97E-08	30YrCance	2.97E-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
500	ALL	UCART2	481224.8	3774441	2.86E-08	30YrCance	2.86E-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
501	ALL	UCART2	481303.9	3774441	2.75E-08	30YrCance	2.75E-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
502	ALL	UCART2	481383	3774441	2.61E-08	30YrCance	2.61E-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
503	ALL	UCART2	481462	3774441	2.44E-08	30YrCance	2.44E-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
504	ALL	UCART2	481541.1	3774441	2.31E-08	30YrCance	2.31E-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
505	ALL	UCART2	479959.7	3774460	5.22E-08	30YrCance	5.22E-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
506	ALL	UCART2	480038.8	3774460	5.11E-08	30YrCance	5.11E-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
507	ALL	UCART2	480117.8	3774460	4.86E-08	30YrCance	4.86E-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
508	ALL	UCART2	480196.9	3774460	4.71E-08	30YrCance	4.71E-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
509	ALL	UCART2	480276	3774460	4.54E-08	30YrCance	4.54E-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
510	ALL	UCART2	480355	3774460	4.32E-08	30YrCance	4.32E-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
511	ALL	UCART2	480434.1	3774460	4.11E-08	30YrCance	4.11E-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
512	ALL	UCART2	480513.2	3774460	3.91E-08	30YrCance	3.91E-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
513	ALL	UCART2	480592.3	3774460	3.71E-08	30YrCance	3.71E-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
514	ALL	UCART2	480671.3	3774460	3.55E-08	30YrCance	3.55E-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
515	ALL	UCART2	480750.4	3774460	3.41E-08	30YrCance	3.41E-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
516	ALL	UCART2	480829.5	3774460	3.28E-08	30YrCance	3.28E-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
517	ALL	UCART2	480908.5	3774460	3.16E-08	30YrCance	3.16E-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
518	ALL	UCART2	480987.6	3774460	3.04E-08	30YrCance	3.04E-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
519	ALL	UCART2	481066.7	3774460	2.92E-08	30YrCance	2.92E-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
520	ALL	UCART2	481145.7	3774460	2.82E-08	30YrCance	2.82E-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
521	ALL	UCART2	481224.8	3774460	2.70E-08	30YrCance	2.70E-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
522	ALL	UCART2	481303.9	3774460	2.60E-08	30YrCance	2.60E-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
523	ALL	UCART2	481383	3774460	2.47E-08	30YrCance	2.47E-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
524	ALL	UCART2	481462	3774460	2.32E-08	30YrCance	2.32E-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
525	ALL	UCART2	481541.1	3774460	2.17E-08	30YrCance	2.17E-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
526	ALL	UCART2	479959.7	3774479	4.92E-08	30YrCance	4.92E-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
527	ALL	UCART2	480038.8	3774479	4.81E-08	30YrCance	4.81E-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
528	ALL	UCART2	480117.8	3774479	4.57E-08	30YrCance	4.57E-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
529	ALL	UCART2	480196.9	3774479	4.44E-08	30YrCance	4.44E-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
530	ALL	UCART2	480276	3774479	4.29E-08	30YrCance	4.29E-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
531	ALL	UCART2	480355	3774479	4.08E-08	30YrCance	4.08E-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
532	ALL	UCART2	480434.1	3774479	3.89E-08	30YrCance	3.89E-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
533	ALL	UCART2	480513.2	3774479	3.70E-08	30YrCance	3.70E-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
534	ALL	UCART2	480592.3	3774479	3.54E-08	30YrCance	3.54E-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
535	ALL	UCART2	480671.3	3774479	3.36E-08	30YrCance	3.36E-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
536	ALL	UCART2	480750.4	3774479	3.23E-08	30YrCance	3.23E-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
537	ALL	UCART2	480829.5	3774479	3.12E-08	30YrCance	3.12E-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
538	ALL	UCART2	480908.5	3774479	3.01E-08	30YrCance	3.01E-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
539	ALL	UCART2	480987.6	3774479	2.89E-08	30YrCance	2.89E-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
540	ALL	UCART2	481066.7	3774479	2.78E-08	30YrCance	2.78E-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
541	ALL	UCART2	481145.7	3774479	2.68E-08	30YrCance	2.68E-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
542	ALL	UCART2	481224.8	3774479	2.56E-08	30YrCance	2.56E-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
543	ALL	UCART2	481303.9	3774479	2.47E-08	30YrCance	2.47E-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
544	ALL	UCART2	481383	3774479	2.34E-08	30YrCance	2.34E-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
545	ALL	UCART2	481462	3774479	2.20E-08	30YrCance	2.20E-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

546	ALL	UCART2	481541.1	3774479	2.02E-08	30YrCance	2.02E-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
547	ALL	UCART2	479959.7	3774498	4.66E-08	30YrCance	4.66E-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
548	ALL	UCART2	480038.8	3774498	4.54E-08	30YrCance	4.54E-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
549	ALL	UCART2	480117.8	3774498	4.33E-08	30YrCance	4.33E-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
550	ALL	UCART2	480196.9	3774498	4.21E-08	30YrCance	4.21E-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
551	ALL	UCART2	480276	3774498	4.06E-08	30YrCance	4.06E-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
552	ALL	UCART2	480355	3774498	3.86E-08	30YrCance	3.86E-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
553	ALL	UCART2	480434.1	3774498	3.69E-08	30YrCance	3.69E-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
554	ALL	UCART2	480513.2	3774498	3.52E-08	30YrCance	3.52E-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
555	ALL	UCART2	480592.3	3774498	3.36E-08	30YrCance	3.36E-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
556	ALL	UCART2	480671.3	3774498	3.19E-08	30YrCance	3.19E-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
557	ALL	UCART2	480750.4	3774498	3.07E-08	30YrCance	3.07E-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
558	ALL	UCART2	480829.5	3774498	2.96E-08	30YrCance	2.96E-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
559	ALL	UCART2	480908.5	3774498	2.85E-08	30YrCance	2.85E-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
560	ALL	UCART2	480987.6	3774498	2.75E-08	30YrCance	2.75E-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
561	ALL	UCART2	481066.7	3774498	2.64E-08	30YrCance	2.64E-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
562	ALL	UCART2	481145.7	3774498	2.55E-08	30YrCance	2.55E-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
563	ALL	UCART2	481224.8	3774498	2.44E-08	30YrCance	2.44E-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
564	ALL	UCART2	481303.9	3774498	2.35E-08	30YrCance	2.35E-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
565	ALL	UCART2	481383	3774498	2.22E-08	30YrCance	2.22E-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
566	ALL	UCART2	481462	3774498	2.10E-08	30YrCance	2.10E-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
567	ALL	UCART2	481541.1	3774498	1.92E-08	30YrCance	1.92E-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
568	ALL	UCART2	479959.7	3774518	4.44E-08	30YrCance	4.44E-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
569	ALL	UCART2	480038.8	3774518	4.30E-08	30YrCance	4.30E-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
570	ALL	UCART2	480117.8	3774518	4.10E-08	30YrCance	4.10E-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
571	ALL	UCART2	480196.9	3774518	3.99E-08	30YrCance	3.99E-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
572	ALL	UCART2	480276	3774518	3.84E-08	30YrCance	3.84E-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
573	ALL	UCART2	480355	3774518	3.66E-08	30YrCance	3.66E-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
574	ALL	UCART2	480434.1	3774518	3.50E-08	30YrCance	3.50E-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
575	ALL	UCART2	480513.2	3774518	3.34E-08	30YrCance	3.34E-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
576	ALL	UCART2	480592.3	3774518	3.20E-08	30YrCance	3.20E-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
577	ALL	UCART2	480671.3	3774518	3.03E-08	30YrCance	3.03E-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
578	ALL	UCART2	480750.4	3774518	2.92E-08	30YrCance	2.92E-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
579	ALL	UCART2	480829.5	3774518	2.82E-08	30YrCance	2.82E-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
580	ALL	UCART2	480908.5	3774518	2.72E-08	30YrCance	2.72E-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
581	ALL	UCART2	480987.6	3774518	2.62E-08	30YrCance	2.62E-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
582	ALL	UCART2	481066.7	3774518	2.52E-08	30YrCance	2.52E-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
583	ALL	UCART2	481145.7	3774518	2.43E-08	30YrCance	2.43E-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
584	ALL	UCART2	481224.8	3774518	2.34E-08	30YrCance	2.34E-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
585	ALL	UCART2	481303.9	3774518	2.23E-08	30YrCance	2.23E-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
586	ALL	UCART2	481383	3774518	2.11E-08	30YrCance	2.11E-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
587	ALL	UCART2	481462	3774518	1.99E-08	30YrCance	1.99E-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
588	ALL	UCART2	481541.1	3774518	1.86E-08	30YrCance	1.86E-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
589	ALL	UCART2	479959.7	3774537	4.21E-08	30YrCance	4.21E-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
590	ALL	UCART2	480038.8	3774537	4.07E-08	30YrCance	4.07E-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
591	ALL	UCART2	480117.8	3774537	3.89E-08	30YrCance	3.89E-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
592	ALL	UCART2	480196.9	3774537	3.78E-08	30YrCance	3.78E-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
593	ALL	UCART2	480276	3774537	3.65E-08	30YrCance	3.65E-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
594	ALL	UCART2	480355	3774537	3.48E-08	30YrCance	3.48E-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
595	ALL	UCART2	480434.1	3774537	3.33E-08	30YrCance	3.33E-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
596	ALL	UCART2	480513.2	3774537	3.18E-08	30YrCance	3.18E-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
597	ALL	UCART2	480592.3	3774537	3.05E-08	30YrCance	3.05E-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
598	ALL	UCART2	480671.3	3774537	2.88E-08	30YrCance	2.88E-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
599	ALL	UCART2	480750.4	3774537	2.78E-08	30YrCance	2.78E-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
600	ALL	UCART2	480829.5	3774537	2.68E-08	30YrCance	2.68E-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
601	ALL	UCART2	480908.5	3774537	2.59E-08	30YrCance	2.59E-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
602	ALL	UCART2	480987.6	3774537	2.49E-08	30YrCance	2.49E-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
603	ALL	UCART2	481066.7	3774537	2.41E-08	30YrCance	2.41E-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
604	ALL	UCART2	481145.7	3774537	2.32E-08	30YrCance	2.32E-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
605	ALL	UCART2	481224.8	3774537	2.23E-08	30YrCance	2.23E-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
606	ALL	UCART2	481303.9	3774537	2.13E-08	30YrCance	2.13E-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
607	ALL	UCART2	481383	3774537	2.01E-08	30YrCance	2.01E-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
608	ALL	UCART2	481462	3774537	1.90E-08	30YrCance	1.90E-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
609	ALL	UCART2	481541.1	3774537	1.78E-08	30YrCance	1.78E-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
610	ALL	UCART2	479959.7	3774556	3.99E-08	30YrCance	3.99E-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
611	ALL	UCART2	480038.8	3774556	3.88E-08	30YrCance	3.88E-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
612	ALL	UCART2	480117.8	3774556	3.72E-08	30YrCance	3.72E-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
613	ALL	UCART2	480196.9	3774556	3.60E-08	30YrCance	3.60E-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
614	ALL	UCART2	480276	3774556	3.47E-08	30YrCance	3.47E-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
615	ALL	UCART2	480355	3774556	3.31E-08	30YrCance	3.31E-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
616	ALL	UCART2	480434.1	3774556	3.18E-08	30YrCance	3.18E-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
617	ALL	UCART2	480513.2	3774556	3.04E-08	30YrCance	3.04E-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
618	ALL	UCART2	480592.3	3774556	2.90E-08	30YrCance	2.90E-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
619	ALL	UCART2	480671.3	3774556	2.75E-08	30YrCance	2.75E-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
620	ALL	UCART2	480750.4	3774556	2.66E-08	30YrCance	2.66E-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
621	ALL	UCART2	480829.5	3774556	2.57E-08	30YrCance	2.57E-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
622	ALL	UCART2	480908.5	3774556	2.48E-08	30YrCance	2.48E-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
623	ALL	UCART2	480987.6	3774556	2.39E-08	30YrCance	2.39E-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
624	ALL	UCART2	481066.7	3774556	2.30E-08	30YrCance	2.30E-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
625	ALL	UCART2	481145.7	3774556	2.22E-08	30YrCance	2.22E-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
626	ALL	UCART2	481224.8	3774556	2.12E-08	30YrCance	2.12E-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
627	ALL	UCART2	481303.9	3774556	2.03E-08	30YrCance	2.03E-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
628	ALL	UCART2	481383	3774556	1.92E-08	30YrCance	1.92E-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
629	ALL	UCART2	481462	3774556	1.82E-08	30YrCance	1.82E-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
630	ALL	UCART2	481541.1	3774556	1.70E-08	30YrCance	1.70E-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
631	ALL	UCART2	479959.7	3774576	3.80E-08	30YrCance	3.80E-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
632	ALL	UCART2	480038.8	3774576	3.70E-08	30YrCance	3.70E-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
633	ALL	UCART2	480117.8	3774576	3.56E-08	30YrCance	3.56E-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
634	ALL	UCART2	480196.9	3774576	3.43E-08	30YrCance	3.43E-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
635	ALL	UCART2	480276	3774576	3.31E-08	30YrCance	3.31E-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
636	ALL	UCART2	480355	3774576	3.16E-08	30YrCance	3.16E-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

637	ALL	UCART2	480434.1	3774576	3.04E-08	30YrCance	3.04E-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
638	ALL	UCART2	480513.2	3774576	2.90E-08	30YrCance	2.90E-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
639	ALL	UCART2	480592.3	3774576	2.78E-08	30YrCance	2.78E-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
640	ALL	UCART2	480671.3	3774576	2.63E-08	30YrCance	2.63E-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
641	ALL	UCART2	480750.4	3774576	2.54E-08	30YrCance	2.54E-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
642	ALL	UCART2	480829.5	3774576	2.46E-08	30YrCance	2.46E-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
643	ALL	UCART2	480908.5	3774576	2.38E-08	30YrCance	2.38E-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
644	ALL	UCART2	480987.6	3774576	2.30E-08	30YrCance	2.30E-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
645	ALL	UCART2	481066.7	3774576	2.20E-08	30YrCance	2.20E-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
646	ALL	UCART2	481145.7	3774576	2.12E-08	30YrCance	2.12E-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
647	ALL	UCART2	481224.8	3774576	2.03E-08	30YrCance	2.03E-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
648	ALL	UCART2	481303.9	3774576	1.94E-08	30YrCance	1.94E-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
649	ALL	UCART2	481383	3774576	1.83E-08	30YrCance	1.83E-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
650	ALL	UCART2	481462	3774576	1.74E-08	30YrCance	1.74E-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
651	ALL	UCART2	481541.1	3774576	1.62E-08	30YrCance	1.62E-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
652	ALL	UCART2	479959.7	3774595	3.62E-08	30YrCance	3.62E-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
653	ALL	UCART2	480038.8	3774595	3.52E-08	30YrCance	3.52E-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
654	ALL	UCART2	480117.8	3774595	3.40E-08	30YrCance	3.40E-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
655	ALL	UCART2	480196.9	3774595	3.28E-08	30YrCance	3.28E-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
656	ALL	UCART2	480276	3774595	3.16E-08	30YrCance	3.16E-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
657	ALL	UCART2	480355	3774595	3.02E-08	30YrCance	3.02E-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
658	ALL	UCART2	480434.1	3774595	2.90E-08	30YrCance	2.90E-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
659	ALL	UCART2	480513.2	3774595	2.77E-08	30YrCance	2.77E-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
660	ALL	UCART2	480592.3	3774595	2.66E-08	30YrCance	2.66E-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
661	ALL	UCART2	480671.3	3774595	2.52E-08	30YrCance	2.52E-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
662	ALL	UCART2	480750.4	3774595	2.43E-08	30YrCance	2.43E-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
663	ALL	UCART2	480829.5	3774595	2.35E-08	30YrCance	2.35E-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
664	ALL	UCART2	480908.5	3774595	2.28E-08	30YrCance	2.28E-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
665	ALL	UCART2	480987.6	3774595	2.19E-08	30YrCance	2.19E-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
666	ALL	UCART2	481066.7	3774595	2.11E-08	30YrCance	2.11E-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
667	ALL	UCART2	481145.7	3774595	2.03E-08	30YrCance	2.03E-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
668	ALL	UCART2	481224.8	3774595	1.95E-08	30YrCance	1.95E-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
669	ALL	UCART2	481303.9	3774595	1.86E-08	30YrCance	1.86E-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
670	ALL	UCART2	481383	3774595	1.77E-08	30YrCance	1.77E-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
671	ALL	UCART2	481462	3774595	1.67E-08	30YrCance	1.67E-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
672	ALL	UCART2	481541.1	3774595	1.56E-08	30YrCance	1.56E-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
673	ALL	UCART2	479959.7	3774614	3.45E-08	30YrCance	3.45E-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
674	ALL	UCART2	480038.8	3774614	3.35E-08	30YrCance	3.35E-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
675	ALL	UCART2	480117.8	3774614	3.26E-08	30YrCance	3.26E-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
676	ALL	UCART2	480196.9	3774614	3.14E-08	30YrCance	3.14E-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
677	ALL	UCART2	480276	3774614	3.02E-08	30YrCance	3.02E-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
678	ALL	UCART2	480355	3774614	2.89E-08	30YrCance	2.89E-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
679	ALL	UCART2	480434.1	3774614	2.78E-08	30YrCance	2.78E-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
680	ALL	UCART2	480513.2	3774614	2.66E-08	30YrCance	2.66E-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
681	ALL	UCART2	480592.3	3774614	2.55E-08	30YrCance	2.55E-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
682	ALL	UCART2	480671.3	3774614	2.42E-08	30YrCance	2.42E-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
683	ALL	UCART2	480750.4	3774614	2.33E-08	30YrCance	2.33E-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
684	ALL	UCART2	480829.5	3774614	2.26E-08	30YrCance	2.26E-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
685	ALL	UCART2	480908.5	3774614	2.18E-08	30YrCance	2.18E-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
686	ALL	UCART2	480987.6	3774614	2.11E-08	30YrCance	2.11E-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
687	ALL	UCART2	481066.7	3774614	2.02E-08	30YrCance	2.02E-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
688	ALL	UCART2	481145.7	3774614	1.95E-08	30YrCance	1.95E-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
689	ALL	UCART2	481224.8	3774614	1.86E-08	30YrCance	1.86E-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
690	ALL	UCART2	481303.9	3774614	1.78E-08	30YrCance	1.78E-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
691	ALL	UCART2	481383	3774614	1.69E-08	30YrCance	1.69E-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
692	ALL	UCART2	481462	3774614	1.60E-08	30YrCance	1.60E-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
693	ALL	UCART2	481541.1	3774614	1.50E-08	30YrCance	1.50E-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
694	ALL	UCART2	479959.7	3774634	3.32E-08	30YrCance	3.32E-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
695	ALL	UCART2	480038.8	3774634	3.22E-08	30YrCance	3.22E-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
696	ALL	UCART2	480117.8	3774634	3.12E-08	30YrCance	3.12E-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
697	ALL	UCART2	480196.9	3774634	3.01E-08	30YrCance	3.01E-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
698	ALL	UCART2	480276	3774634	2.90E-08	30YrCance	2.90E-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
699	ALL	UCART2	480355	3774634	2.77E-08	30YrCance	2.77E-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
700	ALL	UCART2	480434.1	3774634	2.66E-08	30YrCance	2.66E-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
701	ALL	UCART2	480513.2	3774634	2.55E-08	30YrCance	2.55E-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
702	ALL	UCART2	480592.3	3774634	2.45E-08	30YrCance	2.45E-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
703	ALL	UCART2	480671.3	3774634	2.32E-08	30YrCance	2.32E-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
704	ALL	UCART2	480750.4	3774634	2.24E-08	30YrCance	2.24E-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
705	ALL	UCART2	480829.5	3774634	2.17E-08	30YrCance	2.17E-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
706	ALL	UCART2	480908.5	3774634	2.09E-08	30YrCance	2.09E-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
707	ALL	UCART2	480987.6	3774634	2.02E-08	30YrCance	2.02E-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
708	ALL	UCART2	481066.7	3774634	1.94E-08	30YrCance	1.94E-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
709	ALL	UCART2	481145.7	3774634	1.87E-08	30YrCance	1.87E-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
710	ALL	UCART2	481224.8	3774634	1.78E-08	30YrCance	1.78E-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
711	ALL	UCART2	481303.9	3774634	1.70E-08	30YrCance	1.70E-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
712	ALL	UCART2	481383	3774634	1.62E-08	30YrCance	1.62E-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
713	ALL	UCART2	481462	3774634	1.53E-08	30YrCance	1.53E-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
714	ALL	UCART2	481541.1	3774634	1.44E-08	30YrCance	1.44E-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
715	ALL	UCART2	479959.7	3774653	3.18E-08	30YrCance	3.18E-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
716	ALL	UCART2	480038.8	3774653	3.09E-08	30YrCance	3.09E-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
717	ALL	UCART2	480117.8	3774653	3.00E-08	30YrCance	3.00E-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
718	ALL	UCART2	480196.9	3774653	2.90E-08	30YrCance	2.90E-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
719	ALL	UCART2	480276	3774653	2.78E-08	30YrCance	2.78E-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
720	ALL	UCART2	480355	3774653	2.66E-08	30YrCance	2.66E-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
721	ALL	UCART2	480434.1	3774653	2.55E-08	30YrCance	2.55E-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
722	ALL	UCART2	480513.2	3774653	2.45E-08	30YrCance	2.45E-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
723	ALL	UCART2	480592.3	3774653	2.36E-08	30YrCance	2.36E-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
724	ALL	UCART2	480671.3	3774653	2.23E-08	30YrCance	2.23E-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
725	ALL	UCART2	480750.4	3774653	2.15E-08	30YrCance	2.15E-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
726	ALL	UCART2	480829.5	3774653	2.09E-08	30YrCance	2.09E-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
727	ALL	UCART2	480908.5	3774653	2.02E-08	30YrCance	2.02E-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

728	ALL	UCART2	480987.6	3774653	1.95E-08	30YrCance	1.95E-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
729	ALL	UCART2	481066.7	3774653	1.87E-08	30YrCance	1.87E-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
730	ALL	UCART2	481145.7	3774653	1.80E-08	30YrCance	1.80E-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
731	ALL	UCART2	481224.8	3774653	1.72E-08	30YrCance	1.72E-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
732	ALL	UCART2	481303.9	3774653	1.64E-08	30YrCance	1.64E-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
733	ALL	UCART2	481383	3774653	1.56E-08	30YrCance	1.56E-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
734	ALL	UCART2	481462	3774653	1.47E-08	30YrCance	1.47E-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
735	ALL	UCART2	481541.1	3774653	1.39E-08	30YrCance	1.39E-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
736	ALL	UCART2	479959.7	3774672	3.06E-08	30YrCance	3.06E-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
737	ALL	UCART2	480038.8	3774672	2.96E-08	30YrCance	2.96E-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
738	ALL	UCART2	480117.8	3774672	2.88E-08	30YrCance	2.88E-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
739	ALL	UCART2	480196.9	3774672	2.79E-08	30YrCance	2.79E-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
740	ALL	UCART2	480276	3774672	2.68E-08	30YrCance	2.68E-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
741	ALL	UCART2	480355	3774672	2.55E-08	30YrCance	2.55E-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
742	ALL	UCART2	480434.1	3774672	2.46E-08	30YrCance	2.46E-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
743	ALL	UCART2	480513.2	3774672	2.36E-08	30YrCance	2.36E-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
744	ALL	UCART2	480592.3	3774672	2.26E-08	30YrCance	2.26E-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
745	ALL	UCART2	480671.3	3774672	2.15E-08	30YrCance	2.15E-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
746	ALL	UCART2	480750.4	3774672	2.07E-08	30YrCance	2.07E-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
747	ALL	UCART2	480829.5	3774672	2.01E-08	30YrCance	2.01E-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
748	ALL	UCART2	480908.5	3774672	1.94E-08	30YrCance	1.94E-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
749	ALL	UCART2	480987.6	3774672	1.87E-08	30YrCance	1.87E-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
750	ALL	UCART2	481066.7	3774672	1.80E-08	30YrCance	1.80E-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
751	ALL	UCART2	481145.7	3774672	1.73E-08	30YrCance	1.73E-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
752	ALL	UCART2	481224.8	3774672	1.65E-08	30YrCance	1.65E-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
753	ALL	UCART2	481303.9	3774672	1.58E-08	30YrCance	1.58E-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
754	ALL	UCART2	481383	3774672	1.50E-08	30YrCance	1.50E-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
755	ALL	UCART2	481462	3774672	1.42E-08	30YrCance	1.42E-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
756	ALL	UCART2	481541.1	3774672	1.34E-08	30YrCance	1.34E-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
757	ALL	UCART2	479959.7	3774692	2.93E-08	30YrCance	2.93E-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
758	ALL	UCART2	480038.8	3774692	2.85E-08	30YrCance	2.85E-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
759	ALL	UCART2	480117.8	3774692	2.77E-08	30YrCance	2.77E-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
760	ALL	UCART2	480196.9	3774692	2.68E-08	30YrCance	2.68E-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
761	ALL	UCART2	480276	3774692	2.58E-08	30YrCance	2.58E-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
762	ALL	UCART2	480355	3774692	2.45E-08	30YrCance	2.45E-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
763	ALL	UCART2	480434.1	3774692	2.35E-08	30YrCance	2.35E-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
764	ALL	UCART2	480513.2	3774692	2.26E-08	30YrCance	2.26E-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
765	ALL	UCART2	480592.3	3774692	2.18E-08	30YrCance	2.18E-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
766	ALL	UCART2	480671.3	3774692	2.08E-08	30YrCance	2.08E-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
767	ALL	UCART2	480750.4	3774692	2.00E-08	30YrCance	2.00E-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
768	ALL	UCART2	480829.5	3774692	1.94E-08	30YrCance	1.94E-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
769	ALL	UCART2	480908.5	3774692	1.87E-08	30YrCance	1.87E-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
770	ALL	UCART2	480987.6	3774692	1.80E-08	30YrCance	1.80E-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
771	ALL	UCART2	481066.7	3774692	1.74E-08	30YrCance	1.74E-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
772	ALL	UCART2	481145.7	3774692	1.67E-08	30YrCance	1.67E-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
773	ALL	UCART2	481224.8	3774692	1.59E-08	30YrCance	1.59E-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
774	ALL	UCART2	481303.9	3774692	1.52E-08	30YrCance	1.52E-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
775	ALL	UCART2	481383	3774692	1.45E-08	30YrCance	1.45E-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
776	ALL	UCART2	481462	3774692	1.37E-08	30YrCance	1.37E-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	UCART2	481541.1	3774692	1.29E-08	30YrCance	1.29E-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	UCART2	479959.7	3774711	2.81E-08	30YrCance	2.81E-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
779	ALL	UCART2	480038.8	3774711	2.72E-08	30YrCance	2.72E-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
780	ALL	UCART2	480117.8	3774711	2.65E-08	30YrCance	2.65E-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
781	ALL	UCART2	480196.9	3774711	2.56E-08	30YrCance	2.56E-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
782	ALL	UCART2	480276	3774711	2.47E-08	30YrCance	2.47E-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
783	ALL	UCART2	480355	3774711	2.36E-08	30YrCance	2.36E-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
784	ALL	UCART2	480434.1	3774711	2.27E-08	30YrCance	2.27E-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
785	ALL	UCART2	480513.2	3774711	2.18E-08	30YrCance	2.18E-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
786	ALL	UCART2	480592.3	3774711	2.10E-08	30YrCance	2.10E-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
787	ALL	UCART2	480671.3	3774711	2.01E-08	30YrCance	2.01E-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
788	ALL	UCART2	480750.4	3774711	1.93E-08	30YrCance	1.93E-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
789	ALL	UCART2	480829.5	3774711	1.87E-08	30YrCance	1.87E-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
790	ALL	UCART2	480908.5	3774711	1.80E-08	30YrCance	1.80E-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
791	ALL	UCART2	480987.6	3774711	1.74E-08	30YrCance	1.74E-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
792	ALL	UCART2	481066.7	3774711	1.67E-08	30YrCance	1.67E-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
793	ALL	UCART2	481145.7	3774711	1.61E-08	30YrCance	1.61E-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
794	ALL	UCART2	481224.8	3774711	1.53E-08	30YrCance	1.53E-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
795	ALL	UCART2	481303.9	3774711	1.46E-08	30YrCance	1.46E-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
796	ALL	UCART2	481383	3774711	1.40E-08	30YrCance	1.40E-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
797	ALL	UCART2	481462	3774711	1.32E-08	30YrCance	1.32E-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
798	ALL	UCART2	481541.1	3774711	1.25E-08	30YrCance	1.25E-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
799	ALL	UCART2	479959.7	3774730	2.69E-08	30YrCance	2.69E-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
800	ALL	UCART2	480038.8	3774730	2.62E-08	30YrCance	2.62E-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
801	ALL	UCART2	480117.8	3774730	2.54E-08	30YrCance	2.54E-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
802	ALL	UCART2	480196.9	3774730	2.46E-08	30YrCance	2.46E-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
803	ALL	UCART2	480276	3774730	2.37E-08	30YrCance	2.37E-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
804	ALL	UCART2	480355	3774730	2.28E-08	30YrCance	2.28E-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
805	ALL	UCART2	480434.1	3774730	2.19E-08	30YrCance	2.19E-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	UCART2	480513.2	3774730	2.10E-08	30YrCance	2.10E-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	UCART2	480592.3	3774730	2.02E-08	30YrCance	2.02E-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	UCART2	480671.3	3774730	1.94E-08	30YrCance	1.94E-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	UCART2	480750.4	3774730	1.86E-08	30YrCance	1.86E-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
810	ALL	UCART2	480829.5	3774730	1.80E-08	30YrCance	1.80E-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
811	ALL	UCART2	480908.5	3774730	1.74E-08	30YrCance	1.74E-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
812	ALL	UCART2	480987.6	3774730	1.68E-08	30YrCance	1.68E-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
813	ALL	UCART2	481066.7	3774730	1.61E-08	30YrCance	1.61E-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
814	ALL	UCART2	481145.7	3774730	1.55E-08	30YrCance	1.55E-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
815	ALL	UCART2	481224.8	3774730	1.48E-08	30YrCance	1.48E-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
816	ALL	UCART2	481303.9	3774730	1.41E-08	30YrCance	1.41E-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
817	ALL	UCART2	481383	3774730	1.35E-08	30YrCance	1.35E-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
818	ALL	UCART2	481462	3774730	1.28E-08	30YrCance	1.28E-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

819	ALL	UCART2	481541.1	3774730	1.20E-08	30YrCance	1.20E-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
820	ALL	UCART2	479959.7	3774749	2.59E-08	30YrCance	2.59E-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
821	ALL	UCART2	480038.8	3774749	2.52E-08	30YrCance	2.52E-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	UCART2	480117.8	3774749	2.43E-08	30YrCance	2.43E-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
823	ALL	UCART2	480196.9	3774749	2.35E-08	30YrCance	2.35E-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	UCART2	480276	3774749	2.28E-08	30YrCance	2.28E-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
825	ALL	UCART2	480355	3774749	2.20E-08	30YrCance	2.20E-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
826	ALL	UCART2	480434.1	3774749	2.11E-08	30YrCance	2.11E-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
827	ALL	UCART2	480513.2	3774749	2.02E-08	30YrCance	2.02E-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
828	ALL	UCART2	480592.3	3774749	1.95E-08	30YrCance	1.95E-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
829	ALL	UCART2	480671.3	3774749	1.87E-08	30YrCance	1.87E-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
830	ALL	UCART2	480750.4	3774749	1.80E-08	30YrCance	1.80E-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
831	ALL	UCART2	480829.5	3774749	1.74E-08	30YrCance	1.74E-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
832	ALL	UCART2	480908.5	3774749	1.68E-08	30YrCance	1.68E-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
833	ALL	UCART2	480987.6	3774749	1.62E-08	30YrCance	1.62E-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
834	ALL	UCART2	481066.7	3774749	1.56E-08	30YrCance	1.56E-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
835	ALL	UCART2	481145.7	3774749	1.50E-08	30YrCance	1.50E-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
836	ALL	UCART2	481224.8	3774749	1.43E-08	30YrCance	1.43E-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
837	ALL	UCART2	481303.9	3774749	1.36E-08	30YrCance	1.36E-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
838	ALL	UCART2	481383	3774749	1.30E-08	30YrCance	1.30E-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
839	ALL	UCART2	481462	3774749	1.23E-08	30YrCance	1.23E-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	UCART2	481541.1	3774749	1.16E-08	30YrCance	1.16E-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
841	ALL	UCART2	479959.7	3774769	2.49E-08	30YrCance	2.49E-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	UCART2	480038.8	3774769	2.42E-08	30YrCance	2.42E-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
843	ALL	UCART2	480117.8	3774769	2.34E-08	30YrCance	2.34E-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
844	ALL	UCART2	480196.9	3774769	2.28E-08	30YrCance	2.28E-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
845	ALL	UCART2	480276	3774769	2.21E-08	30YrCance	2.21E-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
846	ALL	UCART2	480355	3774769	2.13E-08	30YrCance	2.13E-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
847	ALL	UCART2	480434.1	3774769	2.04E-08	30YrCance	2.04E-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
848	ALL	UCART2	480513.2	3774769	1.96E-08	30YrCance	1.96E-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
849	ALL	UCART2	480592.3	3774769	1.89E-08	30YrCance	1.89E-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
850	ALL	UCART2	480671.3	3774769	1.80E-08	30YrCance	1.80E-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	UCART2	480750.4	3774769	1.74E-08	30YrCance	1.74E-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	UCART2	480829.5	3774769	1.68E-08	30YrCance	1.68E-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
853	ALL	UCART2	480908.5	3774769	1.63E-08	30YrCance	1.63E-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
854	ALL	UCART2	480987.6	3774769	1.56E-08	30YrCance	1.56E-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	UCART2	481066.7	3774769	1.50E-08	30YrCance	1.50E-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
856	ALL	UCART2	481145.7	3774769	1.45E-08	30YrCance	1.45E-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	UCART2	481224.8	3774769	1.38E-08	30YrCance	1.38E-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
858	ALL	UCART2	481303.9	3774769	1.32E-08	30YrCance	1.32E-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
859	ALL	UCART2	481383	3774769	1.26E-08	30YrCance	1.26E-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
860	ALL	UCART2	481462	3774769	1.19E-08	30YrCance	1.19E-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
861	ALL	UCART2	481541.1	3774769	1.12E-08	30YrCance	1.12E-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
862	ALL	UCART2	479959.7	3774788	2.42E-08	30YrCance	2.42E-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
863	ALL	UCART2	480038.8	3774788	2.34E-08	30YrCance	2.34E-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
864	ALL	UCART2	480117.8	3774788	2.27E-08	30YrCance	2.27E-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
865	ALL	UCART2	480196.9	3774788	2.20E-08	30YrCance	2.20E-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
866	ALL	UCART2	480276	3774788	2.13E-08	30YrCance	2.13E-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	UCART2	480355	3774788	2.06E-08	30YrCance	2.06E-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	UCART2	480434.1	3774788	1.98E-08	30YrCance	1.98E-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
869	ALL	UCART2	480513.2	3774788	1.90E-08	30YrCance	1.90E-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
870	ALL	UCART2	480592.3	3774788	1.82E-08	30YrCance	1.82E-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	UCART2	480671.3	3774788	1.74E-08	30YrCance	1.74E-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	UCART2	480750.4	3774788	1.68E-08	30YrCance	1.68E-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
873	ALL	UCART2	480829.5	3774788	1.63E-08	30YrCance	1.63E-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
874	ALL	UCART2	480908.5	3774788	1.57E-08	30YrCance	1.57E-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	UCART2	480987.6	3774788	1.51E-08	30YrCance	1.51E-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
876	ALL	UCART2	481066.7	3774788	1.45E-08	30YrCance	1.45E-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
877	ALL	UCART2	481145.7	3774788	1.40E-08	30YrCance	1.40E-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
878	ALL	UCART2	481224.8	3774788	1.34E-08	30YrCance	1.34E-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
879	ALL	UCART2	481303.9	3774788	1.28E-08	30YrCance	1.28E-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
880	ALL	UCART2	481383	3774788	1.22E-08	30YrCance	1.22E-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
881	ALL	UCART2	481462	3774788	1.15E-08	30YrCance	1.15E-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	UCART2	481541.1	3774788	1.07E-08	30YrCance	1.07E-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
883	ALL		479864.1	3774073	9.92E-07	30YrCance	9.92E-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
884	ALL		479887.9	3774070	1.03E-06	30YrCance	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
885	ALL		479901.1	3774139	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
886	ALL		479776.3	3774150	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
887	ALL		479737.3	3774106	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
888	ALL		479857.1	3774102	6.68E-07	30YrCance	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
889	ALL		479856.5	3774054	1.15E-06	30YrCance	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
890	ALL		479923.4	3774051	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
891	ALL		479923.4	3774009	4.93E-07	30YrCance	4.93E-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
892	ALL		479737.8	3774014	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

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL	UCART1	479159.3	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-05
2	ALL	UCART1	479197.5	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
3	ALL	UCART1	479235.8	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.59E-05
4	ALL	UCART1	479274.1	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
5	ALL	UCART1	479312.3	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
6	ALL	UCART1	479350.6	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-05
7	ALL	UCART1	479388.8	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-05
8	ALL	UCART1	479427.1	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.43E-05
9	ALL	UCART1	479465.4	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
10	ALL	UCART1	479503.6	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-05
11	ALL	UCART1	479541.9	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
12	ALL	UCART1	479580.1	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-05
13	ALL	UCART1	479618.4	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-05
14	ALL	UCART1	479656.7	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-05
15	ALL	UCART1	479694.9	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
16	ALL	UCART1	479733.2	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.90E-05
17	ALL	UCART1	479771.4	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-05
18	ALL	UCART1	479809.7	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
19	ALL	UCART1	479848	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-05
20	ALL	UCART1	479886.2	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-05
21	ALL	UCART1	479924.5	3774216	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-05
22	ALL	UCART1	479159.3	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.99E-05
23	ALL	UCART1	479197.5	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.45E-05
24	ALL	UCART1	479235.8	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.68E-05
25	ALL	UCART1	479274.1	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
26	ALL	UCART1	479312.3	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
27	ALL	UCART1	479350.6	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-05
28	ALL	UCART1	479388.8	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-05
29	ALL	UCART1	479427.1	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-05
30	ALL	UCART1	479465.4	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-05
31	ALL	UCART1	479503.6	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-05
32	ALL	UCART1	479541.9	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-05
33	ALL	UCART1	479580.1	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05
34	ALL	UCART1	479618.4	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-05
35	ALL	UCART1	479656.7	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.56E-05
36	ALL	UCART1	479694.9	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
37	ALL	UCART1	479733.2	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
38	ALL	UCART1	479771.4	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-05
39	ALL	UCART1	479809.7	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
40	ALL	UCART1	479848	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-05
41	ALL	UCART1	479886.2	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-05
42	ALL	UCART1	479924.5	3774245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-05
43	ALL	UCART1	479159.3	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-05
44	ALL	UCART1	479197.5	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-05
45	ALL	UCART1	479235.8	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-05
46	ALL	UCART1	479274.1	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-05
47	ALL	UCART1	479312.3	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-05
48	ALL	UCART1	479350.6	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-05
49	ALL	UCART1	479388.8	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-05
50	ALL	UCART1	479427.1	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.31E-05
51	ALL	UCART1	479465.4	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-05
52	ALL	UCART1	479503.6	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-05
53	ALL	UCART1	479541.9	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-05
54	ALL	UCART1	479580.1	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
55	ALL	UCART1	479618.4	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05
56	ALL	UCART1	479656.7	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.42E-05
57	ALL	UCART1	479694.9	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.39E-05
58	ALL	UCART1	479733.2	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-05
59	ALL	UCART1	479771.4	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-05
60	ALL	UCART1	479809.7	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
61	ALL	UCART1	479848	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
62	ALL	UCART1	479886.2	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05
63	ALL	UCART1	479924.5	3774275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
64	ALL	UCART1	479159.3	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-05
65	ALL	UCART1	479197.5	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-05
66	ALL	UCART1	479235.8	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05
67	ALL	UCART1	479274.1	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-05
68	ALL	UCART1	479312.3	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-05
69	ALL	UCART1	479350.6	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.71E-05
70	ALL	UCART1	479388.8	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-05
71	ALL	UCART1	479427.1	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-05
72	ALL	UCART1	479465.4	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-05
73	ALL	UCART1	479503.6	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-05
74	ALL	UCART1	479541.9	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-05
75	ALL	UCART1	479580.1	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-05
76	ALL	UCART1	479618.4	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-05
77	ALL	UCART1	479656.7	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-05
78	ALL	UCART1	479694.9	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
79	ALL	UCART1	479733.2	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-05
80	ALL	UCART1	479771.4	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-05
81	ALL	UCART1	479809.7	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-05
82	ALL	UCART1	479848	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
83	ALL	UCART1	479886.2	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
84	ALL	UCART1	479924.5	3774305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-05
85	ALL	UCART1	479159.3	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-05
86	ALL	UCART1	479197.5	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-05
87	ALL	UCART1	479235.8	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
88	ALL	UCART1	479274.1	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
89	ALL	UCART1	479312.3	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-05
90	ALL	UCART1	479350.6	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-05
91	ALL	UCART1	479388.8	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-05
92	ALL	UCART1	479427.1	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-05
93	ALL	UCART1	479465.4	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-05
94	ALL	UCART1	479503.6	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
95	ALL	UCART1	479541.9	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
96	ALL	UCART1	479580.1	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
97	ALL	UCART1	479618.4	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-05
98	ALL	UCART1	479656.7	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-05

99	ALL	UCART1	479694.9	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
100	ALL	UCART1	479733.2	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-05
101	ALL	UCART1	479771.4	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-05
102	ALL	UCART1	479809.7	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
103	ALL	UCART1	479848	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
104	ALL	UCART1	479886.2	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-05
105	ALL	UCART1	479924.5	3774334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-05
106	ALL	UCART1	479159.3	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-05
107	ALL	UCART1	479197.5	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-05
108	ALL	UCART1	479235.8	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-05
109	ALL	UCART1	479274.1	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-05
110	ALL	UCART1	479312.3	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-05
111	ALL	UCART1	479350.6	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-05
112	ALL	UCART1	479388.8	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-05
113	ALL	UCART1	479427.1	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-05
114	ALL	UCART1	479465.4	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.43E-05
115	ALL	UCART1	479503.6	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-05
116	ALL	UCART1	479541.9	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
117	ALL	UCART1	479580.1	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-05
118	ALL	UCART1	479618.4	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-05
119	ALL	UCART1	479656.7	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-05
120	ALL	UCART1	479694.9	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
121	ALL	UCART1	479733.2	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05
122	ALL	UCART1	479771.4	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
123	ALL	UCART1	479809.7	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-05
124	ALL	UCART1	479848	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-05
125	ALL	UCART1	479886.2	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-05
126	ALL	UCART1	479924.5	3774364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-05
127	ALL	UCART1	479159.3	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-05
128	ALL	UCART1	479197.5	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-05
129	ALL	UCART1	479235.8	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-05
130	ALL	UCART1	479274.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05
131	ALL	UCART1	479312.3	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05
132	ALL	UCART1	479350.6	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-05
133	ALL	UCART1	479388.8	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-05
134	ALL	UCART1	479427.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-05
135	ALL	UCART1	479465.4	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-05
136	ALL	UCART1	479503.6	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
137	ALL	UCART1	479541.9	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-05
138	ALL	UCART1	479580.1	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-05
139	ALL	UCART1	479618.4	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-05
140	ALL	UCART1	479656.7	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-05
141	ALL	UCART1	479694.9	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-05
142	ALL	UCART1	479733.2	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05
143	ALL	UCART1	479771.4	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-05
144	ALL	UCART1	479809.7	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-05
145	ALL	UCART1	479848	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
146	ALL	UCART1	479886.2	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
147	ALL	UCART1	479924.5	3774394	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
148	ALL	UCART1	479159.3	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
149	ALL	UCART1	479197.5	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-05
150	ALL	UCART1	479235.8	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
151	ALL	UCART1	479274.1	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-05
152	ALL	UCART1	479312.3	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05
153	ALL	UCART1	479350.6	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05
154	ALL	UCART1	479388.8	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-05
155	ALL	UCART1	479427.1	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-05
156	ALL	UCART1	479465.4	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-05
157	ALL	UCART1	479503.6	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
158	ALL	UCART1	479541.9	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
159	ALL	UCART1	479580.1	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-05
160	ALL	UCART1	479618.4	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05
161	ALL	UCART1	479656.7	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-05
162	ALL	UCART1	479694.9	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
163	ALL	UCART1	479733.2	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05
164	ALL	UCART1	479771.4	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
165	ALL	UCART1	479809.7	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
166	ALL	UCART1	479848	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-05
167	ALL	UCART1	479886.2	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
168	ALL	UCART1	479924.5	3774423	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
169	ALL	UCART1	479159.3	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05
170	ALL	UCART1	479197.5	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
171	ALL	UCART1	479235.8	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-05
172	ALL	UCART1	479274.1	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-05
173	ALL	UCART1	479312.3	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-05
174	ALL	UCART1	479350.6	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-05
175	ALL	UCART1	479388.8	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-05
176	ALL	UCART1	479427.1	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-05
177	ALL	UCART1	479465.4	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-05
178	ALL	UCART1	479503.6	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-05
179	ALL	UCART1	479541.9	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-05
180	ALL	UCART1	479580.1	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-05
181	ALL	UCART1	479618.4	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
182	ALL	UCART1	479656.7	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
183	ALL	UCART1	479694.9	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
184	ALL	UCART1	479733.2	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
185	ALL	UCART1	479771.4	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-05
186	ALL	UCART1	479809.7	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-05
187	ALL	UCART1	479848	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
188	ALL	UCART1	479886.2	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
189	ALL	UCART1	479924.5	3774453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
190	ALL	UCART1	479159.3	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
191	ALL	UCART1	479197.5	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
192	ALL	UCART1	479235.8	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
193	ALL	UCART1	479274.1	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.61E-05
194	ALL	UCART1	479312.3	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-05
195	ALL	UCART1	479350.6	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
196	ALL	UCART1	479388.8	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-05
197	ALL	UCART1	479427.1	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05

198	ALL	UCART1	479465.4	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-05
199	ALL	UCART1	479503.6	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-05
200	ALL	UCART1	479541.9	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
201	ALL	UCART1	479580.1	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
202	ALL	UCART1	479618.4	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
203	ALL	UCART1	479656.7	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
204	ALL	UCART1	479694.9	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
205	ALL	UCART1	479733.2	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-05
206	ALL	UCART1	479771.4	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
207	ALL	UCART1	479809.7	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
208	ALL	UCART1	479848	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
209	ALL	UCART1	479886.2	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
210	ALL	UCART1	479924.5	3774483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
211	ALL	UCART1	479159.3	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
212	ALL	UCART1	479197.5	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
213	ALL	UCART1	479235.8	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-05
214	ALL	UCART1	479274.1	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
215	ALL	UCART1	479312.3	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-05
216	ALL	UCART1	479350.6	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
217	ALL	UCART1	479388.8	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
218	ALL	UCART1	479427.1	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
219	ALL	UCART1	479465.4	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
220	ALL	UCART1	479503.6	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
221	ALL	UCART1	479541.9	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-05
222	ALL	UCART1	479580.1	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-05
223	ALL	UCART1	479618.4	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
224	ALL	UCART1	479656.7	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
225	ALL	UCART1	479694.9	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
226	ALL	UCART1	479733.2	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
227	ALL	UCART1	479771.4	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-05
228	ALL	UCART1	479809.7	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
229	ALL	UCART1	479848	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
230	ALL	UCART1	479886.2	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
231	ALL	UCART1	479924.5	3774512	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
232	ALL	UCART1	479159.3	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
233	ALL	UCART1	479197.5	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
234	ALL	UCART1	479235.8	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
235	ALL	UCART1	479274.1	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05
236	ALL	UCART1	479312.3	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
237	ALL	UCART1	479350.6	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
238	ALL	UCART1	479388.8	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
239	ALL	UCART1	479427.1	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-05
240	ALL	UCART1	479465.4	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
241	ALL	UCART1	479503.6	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
242	ALL	UCART1	479541.9	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
243	ALL	UCART1	479580.1	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
244	ALL	UCART1	479618.4	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-05
245	ALL	UCART1	479656.7	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
246	ALL	UCART1	479694.9	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
247	ALL	UCART1	479733.2	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-05
248	ALL	UCART1	479771.4	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
249	ALL	UCART1	479809.7	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
250	ALL	UCART1	479848	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
251	ALL	UCART1	479886.2	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
252	ALL	UCART1	479924.5	3774542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
253	ALL	UCART1	479159.3	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
254	ALL	UCART1	479197.5	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
255	ALL	UCART1	479235.8	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
256	ALL	UCART1	479274.1	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
257	ALL	UCART1	479312.3	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05
258	ALL	UCART1	479350.6	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
259	ALL	UCART1	479388.8	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
260	ALL	UCART1	479427.1	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
261	ALL	UCART1	479465.4	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
262	ALL	UCART1	479503.6	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
263	ALL	UCART1	479541.9	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
264	ALL	UCART1	479580.1	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
265	ALL	UCART1	479618.4	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
266	ALL	UCART1	479656.7	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
267	ALL	UCART1	479694.9	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
268	ALL	UCART1	479733.2	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
269	ALL	UCART1	479771.4	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
270	ALL	UCART1	479809.7	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
271	ALL	UCART1	479848	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
272	ALL	UCART1	479886.2	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
273	ALL	UCART1	479924.5	3774572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
274	ALL	UCART1	479159.3	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
275	ALL	UCART1	479197.5	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
276	ALL	UCART1	479235.8	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
277	ALL	UCART1	479274.1	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
278	ALL	UCART1	479312.3	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
279	ALL	UCART1	479350.6	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
280	ALL	UCART1	479388.8	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
281	ALL	UCART1	479427.1	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
282	ALL	UCART1	479465.4	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
283	ALL	UCART1	479503.6	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
284	ALL	UCART1	479541.9	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
285	ALL	UCART1	479580.1	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
286	ALL	UCART1	479618.4	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05
287	ALL	UCART1	479656.7	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
288	ALL	UCART1	479694.9	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-05
289	ALL	UCART1	479733.2	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
290	ALL	UCART1	479771.4	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
291	ALL	UCART1	479809.7	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-06
292	ALL	UCART1	479848	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
293	ALL	UCART1	479886.2	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06
294	ALL	UCART1	479924.5	3774601	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-06
295	ALL	UCART1	479159.3	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-06
296	ALL	UCART1	479197.5	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E-06

297	ALL	UCART1	479235.8	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
298	ALL	UCART1	479274.1	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
299	ALL	UCART1	479312.3	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
300	ALL	UCART1	479350.6	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.67E-06
301	ALL	UCART1	479388.8	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-06
302	ALL	UCART1	479427.1	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-06
303	ALL	UCART1	479465.4	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-06
304	ALL	UCART1	479503.6	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.79E-06
305	ALL	UCART1	479541.9	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.83E-06
306	ALL	UCART1	479580.1	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
307	ALL	UCART1	479618.4	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-06
308	ALL	UCART1	479656.7	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06
309	ALL	UCART1	479694.9	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06
310	ALL	UCART1	479733.2	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E-06
311	ALL	UCART1	479771.4	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-06
312	ALL	UCART1	479809.7	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.31E-06
313	ALL	UCART1	479848	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-06
314	ALL	UCART1	479886.2	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-06
315	ALL	UCART1	479924.5	3774631	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
316	ALL	UCART1	479159.3	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
317	ALL	UCART1	479197.5	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-06
318	ALL	UCART1	479235.8	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.87E-06
319	ALL	UCART1	479274.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
320	ALL	UCART1	479312.3	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06
321	ALL	UCART1	479350.6	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-06
322	ALL	UCART1	479388.8	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06
323	ALL	UCART1	479427.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-06
324	ALL	UCART1	479465.4	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-06
325	ALL	UCART1	479503.6	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
326	ALL	UCART1	479541.9	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-06
327	ALL	UCART1	479580.1	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-06
328	ALL	UCART1	479618.4	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06
329	ALL	UCART1	479656.7	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.11E-06
330	ALL	UCART1	479694.9	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.06E-06
331	ALL	UCART1	479733.2	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-06
332	ALL	UCART1	479771.4	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.82E-06
333	ALL	UCART1	479809.7	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-06
334	ALL	UCART1	479848	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.59E-06
335	ALL	UCART1	479886.2	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-06
336	ALL	UCART1	479924.5	3774661	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06
337	ALL	UCART1	479159.3	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06
338	ALL	UCART1	479197.5	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-06
339	ALL	UCART1	479235.8	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06
340	ALL	UCART1	479274.1	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
341	ALL	UCART1	479312.3	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-06
342	ALL	UCART1	479350.6	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-06
343	ALL	UCART1	479388.8	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06
344	ALL	UCART1	479427.1	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.46E-06
345	ALL	UCART1	479465.4	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-06
346	ALL	UCART1	479503.6	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-06
347	ALL	UCART1	479541.9	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.63E-06
348	ALL	UCART1	479580.1	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
349	ALL	UCART1	479618.4	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
350	ALL	UCART1	479656.7	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
351	ALL	UCART1	479694.9	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06
352	ALL	UCART1	479733.2	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
353	ALL	UCART1	479771.4	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-06
354	ALL	UCART1	479809.7	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06
355	ALL	UCART1	479848	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.03E-06
356	ALL	UCART1	479886.2	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06
357	ALL	UCART1	479924.5	3774690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
358	ALL	UCART1	479159.3	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.54E-06
359	ALL	UCART1	479197.5	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06
360	ALL	UCART1	479235.8	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06
361	ALL	UCART1	479274.1	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.69E-06
362	ALL	UCART1	479312.3	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-06
363	ALL	UCART1	479350.6	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
364	ALL	UCART1	479388.8	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
365	ALL	UCART1	479427.1	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.91E-06
366	ALL	UCART1	479465.4	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-06
367	ALL	UCART1	479503.6	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
368	ALL	UCART1	479541.9	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.10E-06
369	ALL	UCART1	479580.1	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06
370	ALL	UCART1	479618.4	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.08E-06
371	ALL	UCART1	479656.7	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
372	ALL	UCART1	479694.9	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.96E-06
373	ALL	UCART1	479733.2	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-06
374	ALL	UCART1	479771.4	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06
375	ALL	UCART1	479809.7	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
376	ALL	UCART1	479848	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06
377	ALL	UCART1	479886.2	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06
378	ALL	UCART1	479924.5	3774720	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-06
379	ALL	UCART1	479159.3	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E-06
380	ALL	UCART1	479197.5	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06
381	ALL	UCART1	479235.8	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06
382	ALL	UCART1	479274.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-06
383	ALL	UCART1	479312.3	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06
384	ALL	UCART1	479350.6	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
385	ALL	UCART1	479388.8	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-06
386	ALL	UCART1	479427.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.45E-06
387	ALL	UCART1	479465.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-06
388	ALL	UCART1	479503.6	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-06
389	ALL	UCART1	479541.9	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
390	ALL	UCART1	479580.1	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06
391	ALL	UCART1	479618.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.56E-06
392	ALL	UCART1	479656.7	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
393	ALL	UCART1	479694.9	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.46E-06
394	ALL	UCART1	479733.2	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-06
395	ALL	UCART1	479771.4	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.27E-06

396	ALL	UCART1	479809.7	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
397	ALL	UCART1	479848	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06
398	ALL	UCART1	479886.2	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06
399	ALL	UCART1	479924.5	3774750	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-06
400	ALL	UCART1	479159.3	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
401	ALL	UCART1	479197.5	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06
402	ALL	UCART1	479235.8	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-06
403	ALL	UCART1	479274.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06
404	ALL	UCART1	479312.3	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.80E-06
405	ALL	UCART1	479350.6	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
406	ALL	UCART1	479388.8	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-06
407	ALL	UCART1	479427.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-06
408	ALL	UCART1	479465.4	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06
409	ALL	UCART1	479503.6	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.15E-06
410	ALL	UCART1	479541.9	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.18E-06
411	ALL	UCART1	479580.1	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E-06
412	ALL	UCART1	479618.4	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.12E-06
413	ALL	UCART1	479656.7	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-06
414	ALL	UCART1	479694.9	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
415	ALL	UCART1	479733.2	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
416	ALL	UCART1	479771.4	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
417	ALL	UCART1	479809.7	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06
418	ALL	UCART1	479848	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
419	ALL	UCART1	479886.2	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
420	ALL	UCART1	479924.5	3774779	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
421	ALL	UCART1	479159.3	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06
422	ALL	UCART1	479197.5	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
423	ALL	UCART1	479235.8	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E-06
424	ALL	UCART1	479274.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06
425	ALL	UCART1	479312.3	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06
426	ALL	UCART1	479350.6	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-06
427	ALL	UCART1	479388.8	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.56E-06
428	ALL	UCART1	479427.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06
429	ALL	UCART1	479465.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
430	ALL	UCART1	479503.6	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.74E-06
431	ALL	UCART1	479541.9	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
432	ALL	UCART1	479580.1	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
433	ALL	UCART1	479618.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
434	ALL	UCART1	479656.7	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E-06
435	ALL	UCART1	479694.9	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.62E-06
436	ALL	UCART1	479733.2	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.58E-06
437	ALL	UCART1	479771.4	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.51E-06
438	ALL	UCART1	479809.7	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
439	ALL	UCART1	479848	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
440	ALL	UCART1	479886.2	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06
441	ALL	UCART1	479924.5	3774809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06
442	ALL	UCART2	479959.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05
443	ALL	UCART2	480038.8	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-05
444	ALL	UCART2	480117.8	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
445	ALL	UCART2	480196.9	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05
446	ALL	UCART2	480276	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05
447	ALL	UCART2	480355	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-05
448	ALL	UCART2	480434.1	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-05
449	ALL	UCART2	480513.2	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
450	ALL	UCART2	480592.3	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-05
451	ALL	UCART2	480671.3	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
452	ALL	UCART2	480750.4	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
453	ALL	UCART2	480829.5	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
454	ALL	UCART2	480908.5	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-06
455	ALL	UCART2	480987.6	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06
456	ALL	UCART2	481066.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-06
457	ALL	UCART2	481145.7	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-06
458	ALL	UCART2	481224.8	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-06
459	ALL	UCART2	481303.9	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.13E-06
460	ALL	UCART2	481383	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-06
461	ALL	UCART2	481462	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-06
462	ALL	UCART2	481541.1	3774402	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-06
463	ALL	UCART2	479959.7	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-05
464	ALL	UCART2	480038.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05
465	ALL	UCART2	480117.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
466	ALL	UCART2	480196.9	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-05
467	ALL	UCART2	480276	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-05
468	ALL	UCART2	480355	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
469	ALL	UCART2	480434.1	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
470	ALL	UCART2	480513.2	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
471	ALL	UCART2	480592.3	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-05
472	ALL	UCART2	480671.3	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
473	ALL	UCART2	480750.4	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
474	ALL	UCART2	480829.5	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-06
475	ALL	UCART2	480908.5	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-06
476	ALL	UCART2	480987.6	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-06
477	ALL	UCART2	481066.7	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-06
478	ALL	UCART2	481145.7	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.28E-06
479	ALL	UCART2	481224.8	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-06
480	ALL	UCART2	481303.9	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-06
481	ALL	UCART2	481383	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
482	ALL	UCART2	481462	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-06
483	ALL	UCART2	481541.1	3774421	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
484	ALL	UCART2	479959.7	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-05
485	ALL	UCART2	480038.8	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-05
486	ALL	UCART2	480117.8	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05
487	ALL	UCART2	480196.9	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-05
488	ALL	UCART2	480276	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
489	ALL	UCART2	480355	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-05
490	ALL	UCART2	480434.1	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-05
491	ALL	UCART2	480513.2	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-05
492	ALL	UCART2	480592.3	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
493	ALL	UCART2	480671.3	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06
494	ALL	UCART2	480750.4	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-06

495	ALL	UCART2	480829.5	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-06
496	ALL	UCART2	480908.5	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.78E-06
497	ALL	UCART2	480987.6	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.44E-06
498	ALL	UCART2	481066.7	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06
499	ALL	UCART2	481145.7	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-06
500	ALL	UCART2	481224.8	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-06
501	ALL	UCART2	481303.9	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-06
502	ALL	UCART2	481383	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-06
503	ALL	UCART2	481462	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
504	ALL	UCART2	481541.1	3774441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-06
505	ALL	UCART2	479959.7	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05
506	ALL	UCART2	480038.8	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-05
507	ALL	UCART2	480117.8	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-05
508	ALL	UCART2	480196.9	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-05
509	ALL	UCART2	480276	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
510	ALL	UCART2	480355	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
511	ALL	UCART2	480434.1	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
512	ALL	UCART2	480513.2	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
513	ALL	UCART2	480592.3	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-06
514	ALL	UCART2	480671.3	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-06
515	ALL	UCART2	480750.4	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-06
516	ALL	UCART2	480829.5	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-06
517	ALL	UCART2	480908.5	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
518	ALL	UCART2	480987.6	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.01E-06
519	ALL	UCART2	481066.7	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E-06
520	ALL	UCART2	481145.7	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.44E-06
521	ALL	UCART2	481224.8	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.11E-06
522	ALL	UCART2	481303.9	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-06
523	ALL	UCART2	481383	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06
524	ALL	UCART2	481462	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-06
525	ALL	UCART2	481541.1	3774460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
526	ALL	UCART2	479959.7	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-05
527	ALL	UCART2	480038.8	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05
528	ALL	UCART2	480117.8	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
529	ALL	UCART2	480196.9	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
530	ALL	UCART2	480276	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
531	ALL	UCART2	480355	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
532	ALL	UCART2	480434.1	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
533	ALL	UCART2	480513.2	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06
534	ALL	UCART2	480592.3	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.34E-06
535	ALL	UCART2	480671.3	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-06
536	ALL	UCART2	480750.4	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06
537	ALL	UCART2	480829.5	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-06
538	ALL	UCART2	480908.5	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-06
539	ALL	UCART2	480987.6	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.62E-06
540	ALL	UCART2	481066.7	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
541	ALL	UCART2	481145.7	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
542	ALL	UCART2	481224.8	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06
543	ALL	UCART2	481303.9	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06
544	ALL	UCART2	481383	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06
545	ALL	UCART2	481462	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.81E-06
546	ALL	UCART2	481541.1	3774479	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
547	ALL	UCART2	479959.7	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05
548	ALL	UCART2	480038.8	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-05
549	ALL	UCART2	480117.8	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-05
550	ALL	UCART2	480196.9	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
551	ALL	UCART2	480276	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
552	ALL	UCART2	480355	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
553	ALL	UCART2	480434.1	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-06
554	ALL	UCART2	480513.2	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-06
555	ALL	UCART2	480592.3	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E-06
556	ALL	UCART2	480671.3	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-06
557	ALL	UCART2	480750.4	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-06
558	ALL	UCART2	480829.5	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.80E-06
559	ALL	UCART2	480908.5	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-06
560	ALL	UCART2	480987.6	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-06
561	ALL	UCART2	481066.7	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06
562	ALL	UCART2	481145.7	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
563	ALL	UCART2	481224.8	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.43E-06
564	ALL	UCART2	481303.9	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-06
565	ALL	UCART2	481383	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.85E-06
566	ALL	UCART2	481462	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.53E-06
567	ALL	UCART2	481541.1	3774498	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
568	ALL	UCART2	479959.7	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05
569	ALL	UCART2	480038.8	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05
570	ALL	UCART2	480117.8	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-05
571	ALL	UCART2	480196.9	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
572	ALL	UCART2	480276	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-05
573	ALL	UCART2	480355	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-06
574	ALL	UCART2	480434.1	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.21E-06
575	ALL	UCART2	480513.2	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-06
576	ALL	UCART2	480592.3	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.43E-06
577	ALL	UCART2	480671.3	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.98E-06
578	ALL	UCART2	480750.4	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.70E-06
579	ALL	UCART2	480829.5	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.42E-06
580	ALL	UCART2	480908.5	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-06
581	ALL	UCART2	480987.6	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
582	ALL	UCART2	481066.7	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
583	ALL	UCART2	481145.7	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06
584	ALL	UCART2	481224.8	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
585	ALL	UCART2	481303.9	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06
586	ALL	UCART2	481383	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06
587	ALL	UCART2	481462	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06
588	ALL	UCART2	481541.1	3774518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.89E-06
589	ALL	UCART2	479959.7	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-05
590	ALL	UCART2	480038.8	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-05
591	ALL	UCART2	480117.8	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-05
592	ALL	UCART2	480196.9	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-06
593	ALL	UCART2	480276	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-06

594	ALL	UCART2	480355	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-06
595	ALL	UCART2	480434.1	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-06
596	ALL	UCART2	480513.2	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06
597	ALL	UCART2	480592.3	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-06
598	ALL	UCART2	480671.3	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-06
599	ALL	UCART2	480750.4	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
600	ALL	UCART2	480829.5	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-06
601	ALL	UCART2	480908.5	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-06
602	ALL	UCART2	480987.6	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06
603	ALL	UCART2	481066.7	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.34E-06
604	ALL	UCART2	481145.7	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.11E-06
605	ALL	UCART2	481224.8	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E-06
606	ALL	UCART2	481303.9	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-06
607	ALL	UCART2	481383	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06
608	ALL	UCART2	481462	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06
609	ALL	UCART2	481541.1	3774537	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-06
610	ALL	UCART2	479959.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-05
611	ALL	UCART2	480038.8	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-05
612	ALL	UCART2	480117.8	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-06
613	ALL	UCART2	480196.9	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-06
614	ALL	UCART2	480276	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-06
615	ALL	UCART2	480355	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-06
616	ALL	UCART2	480434.1	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.37E-06
617	ALL	UCART2	480513.2	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06
618	ALL	UCART2	480592.3	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-06
619	ALL	UCART2	480671.3	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-06
620	ALL	UCART2	480750.4	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
621	ALL	UCART2	480829.5	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-06
622	ALL	UCART2	480908.5	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.52E-06
623	ALL	UCART2	480987.6	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E-06
624	ALL	UCART2	481066.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-06
625	ALL	UCART2	481145.7	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-06
626	ALL	UCART2	481224.8	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-06
627	ALL	UCART2	481303.9	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06
628	ALL	UCART2	481383	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-06
629	ALL	UCART2	481462	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E-06
630	ALL	UCART2	481541.1	3774556	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.47E-06
631	ALL	UCART2	479959.7	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-05
632	ALL	UCART2	480038.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.75E-06
633	ALL	UCART2	480117.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-06
634	ALL	UCART2	480196.9	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.03E-06
635	ALL	UCART2	480276	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-06
636	ALL	UCART2	480355	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
637	ALL	UCART2	480434.1	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-06
638	ALL	UCART2	480513.2	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06
639	ALL	UCART2	480592.3	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
640	ALL	UCART2	480671.3	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-06
641	ALL	UCART2	480750.4	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
642	ALL	UCART2	480829.5	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-06
643	ALL	UCART2	480908.5	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-06
644	ALL	UCART2	480987.6	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-06
645	ALL	UCART2	481066.7	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06
646	ALL	UCART2	481145.7	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-06
647	ALL	UCART2	481224.8	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.36E-06
648	ALL	UCART2	481303.9	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
649	ALL	UCART2	481383	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-06
650	ALL	UCART2	481462	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
651	ALL	UCART2	481541.1	3774576	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
652	ALL	UCART2	479959.7	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-06
653	ALL	UCART2	480038.8	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-06
654	ALL	UCART2	480117.8	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-06
655	ALL	UCART2	480196.9	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-06
656	ALL	UCART2	480276	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.32E-06
657	ALL	UCART2	480355	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
658	ALL	UCART2	480434.1	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-06
659	ALL	UCART2	480513.2	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-06
660	ALL	UCART2	480592.3	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-06
661	ALL	UCART2	480671.3	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.64E-06
662	ALL	UCART2	480750.4	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.41E-06
663	ALL	UCART2	480829.5	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
664	ALL	UCART2	480908.5	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
665	ALL	UCART2	480987.6	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-06
666	ALL	UCART2	481066.7	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-06
667	ALL	UCART2	481145.7	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.35E-06
668	ALL	UCART2	481224.8	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
669	ALL	UCART2	481303.9	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
670	ALL	UCART2	481383	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-06
671	ALL	UCART2	481462	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-06
672	ALL	UCART2	481541.1	3774595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
673	ALL	UCART2	479959.7	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-06
674	ALL	UCART2	480038.8	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-06
675	ALL	UCART2	480117.8	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-06
676	ALL	UCART2	480196.9	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.27E-06
677	ALL	UCART2	480276	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-06
678	ALL	UCART2	480355	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-06
679	ALL	UCART2	480434.1	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-06
680	ALL	UCART2	480513.2	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.01E-06
681	ALL	UCART2	480592.3	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-06
682	ALL	UCART2	480671.3	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.37E-06
683	ALL	UCART2	480750.4	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-06
684	ALL	UCART2	480829.5	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-06
685	ALL	UCART2	480908.5	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06
686	ALL	UCART2	480987.6	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.55E-06
687	ALL	UCART2	481066.7	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
688	ALL	UCART2	481145.7	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06
689	ALL	UCART2	481224.8	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-06
690	ALL	UCART2	481303.9	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.69E-06
691	ALL	UCART2	481383	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.45E-06
692	ALL	UCART2	481462	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-06

693	ALL	UCART2	481541.1	3774614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06
694	ALL	UCART2	479959.7	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.74E-06
695	ALL	UCART2	480038.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.47E-06
696	ALL	UCART2	480117.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06
697	ALL	UCART2	480196.9	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.94E-06
698	ALL	UCART2	480276	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
699	ALL	UCART2	480355	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
700	ALL	UCART2	480434.1	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-06
701	ALL	UCART2	480513.2	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-06
702	ALL	UCART2	480592.3	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06
703	ALL	UCART2	480671.3	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.12E-06
704	ALL	UCART2	480750.4	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-06
705	ALL	UCART2	480829.5	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.71E-06
706	ALL	UCART2	480908.5	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
707	ALL	UCART2	480987.6	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
708	ALL	UCART2	481066.7	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-06
709	ALL	UCART2	481145.7	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-06
710	ALL	UCART2	481224.8	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-06
711	ALL	UCART2	481303.9	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.49E-06
712	ALL	UCART2	481383	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-06
713	ALL	UCART2	481462	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-06
714	ALL	UCART2	481541.1	3774634	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-06
715	ALL	UCART2	479959.7	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-06
716	ALL	UCART2	480038.8	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-06
717	ALL	UCART2	480117.8	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-06
718	ALL	UCART2	480196.9	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-06
719	ALL	UCART2	480276	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.33E-06
720	ALL	UCART2	480355	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-06
721	ALL	UCART2	480434.1	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
722	ALL	UCART2	480513.2	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06
723	ALL	UCART2	480592.3	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-06
724	ALL	UCART2	480671.3	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-06
725	ALL	UCART2	480750.4	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06
726	ALL	UCART2	480829.5	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-06
727	ALL	UCART2	480908.5	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06
728	ALL	UCART2	480987.6	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-06
729	ALL	UCART2	481066.7	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
730	ALL	UCART2	481145.7	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06
731	ALL	UCART2	481224.8	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.52E-06
732	ALL	UCART2	481303.9	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.32E-06
733	ALL	UCART2	481383	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-06
734	ALL	UCART2	481462	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.88E-06
735	ALL	UCART2	481541.1	3774653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-06
736	ALL	UCART2	479959.7	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.06E-06
737	ALL	UCART2	480038.8	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.81E-06
738	ALL	UCART2	480117.8	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-06
739	ALL	UCART2	480196.9	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-06
740	ALL	UCART2	480276	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.07E-06
741	ALL	UCART2	480355	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.72E-06
742	ALL	UCART2	480434.1	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
743	ALL	UCART2	480513.2	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
744	ALL	UCART2	480592.3	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06
745	ALL	UCART2	480671.3	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.67E-06
746	ALL	UCART2	480750.4	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.46E-06
747	ALL	UCART2	480829.5	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E-06
748	ALL	UCART2	480908.5	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06
749	ALL	UCART2	480987.6	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
750	ALL	UCART2	481066.7	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
751	ALL	UCART2	481145.7	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.55E-06
752	ALL	UCART2	481224.8	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-06
753	ALL	UCART2	481303.9	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-06
754	ALL	UCART2	481383	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-06
755	ALL	UCART2	481462	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.75E-06
756	ALL	UCART2	481541.1	3774672	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06
757	ALL	UCART2	479959.7	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06
758	ALL	UCART2	480038.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.50E-06
759	ALL	UCART2	480117.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-06
760	ALL	UCART2	480196.9	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-06
761	ALL	UCART2	480276	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-06
762	ALL	UCART2	480355	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-06
763	ALL	UCART2	480434.1	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-06
764	ALL	UCART2	480513.2	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-06
765	ALL	UCART2	480592.3	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.73E-06
766	ALL	UCART2	480671.3	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-06
767	ALL	UCART2	480750.4	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.26E-06
768	ALL	UCART2	480829.5	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06
769	ALL	UCART2	480908.5	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
770	ALL	UCART2	480987.6	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06
771	ALL	UCART2	481066.7	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06
772	ALL	UCART2	481145.7	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-06
773	ALL	UCART2	481224.8	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-06
774	ALL	UCART2	481303.9	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-06
775	ALL	UCART2	481383	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06
776	ALL	UCART2	481462	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.61E-06
777	ALL	UCART2	481541.1	3774692	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-06
778	ALL	UCART2	479959.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-06
779	ALL	UCART2	480038.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.17E-06
780	ALL	UCART2	480117.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.98E-06
781	ALL	UCART2	480196.9	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.75E-06
782	ALL	UCART2	480276	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-06
783	ALL	UCART2	480355	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-06
784	ALL	UCART2	480434.1	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-06
785	ALL	UCART2	480513.2	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.74E-06
786	ALL	UCART2	480592.3	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
787	ALL	UCART2	480671.3	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-06
788	ALL	UCART2	480750.4	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.07E-06
789	ALL	UCART2	480829.5	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
790	ALL	UCART2	480908.5	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06
791	ALL	UCART2	480987.6	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.57E-06

792	ALL	UCART2	481066.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-06
793	ALL	UCART2	481145.7	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.23E-06
794	ALL	UCART2	481224.8	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-06
795	ALL	UCART2	481303.9	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06
796	ALL	UCART2	481383	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
797	ALL	UCART2	481462	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E-06
798	ALL	UCART2	481541.1	3774711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-06
799	ALL	UCART2	479959.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-06
800	ALL	UCART2	480038.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.89E-06
801	ALL	UCART2	480117.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-06
802	ALL	UCART2	480196.9	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-06
803	ALL	UCART2	480276	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-06
804	ALL	UCART2	480355	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
805	ALL	UCART2	480434.1	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-06
806	ALL	UCART2	480513.2	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.52E-06
807	ALL	UCART2	480592.3	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-06
808	ALL	UCART2	480671.3	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-06
809	ALL	UCART2	480750.4	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.90E-06
810	ALL	UCART2	480829.5	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-06
811	ALL	UCART2	480908.5	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-06
812	ALL	UCART2	480987.6	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-06
813	ALL	UCART2	481066.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06
814	ALL	UCART2	481145.7	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-06
815	ALL	UCART2	481224.8	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-06
816	ALL	UCART2	481303.9	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.73E-06
817	ALL	UCART2	481383	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-06
818	ALL	UCART2	481462	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-06
819	ALL	UCART2	481541.1	3774730	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-06
820	ALL	UCART2	479959.7	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.84E-06
821	ALL	UCART2	480038.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-06
822	ALL	UCART2	480117.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06
823	ALL	UCART2	480196.9	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-06
824	ALL	UCART2	480276	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-06
825	ALL	UCART2	480355	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06
826	ALL	UCART2	480434.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E-06
827	ALL	UCART2	480513.2	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-06
828	ALL	UCART2	480592.3	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-06
829	ALL	UCART2	480671.3	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-06
830	ALL	UCART2	480750.4	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.73E-06
831	ALL	UCART2	480829.5	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
832	ALL	UCART2	480908.5	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06
833	ALL	UCART2	480987.6	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.25E-06
834	ALL	UCART2	481066.7	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
835	ALL	UCART2	481145.7	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.94E-06
836	ALL	UCART2	481224.8	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-06
837	ALL	UCART2	481303.9	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.59E-06
838	ALL	UCART2	481383	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-06
839	ALL	UCART2	481462	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-06
840	ALL	UCART2	481541.1	3774749	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.06E-06
841	ALL	UCART2	479959.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.57E-06
842	ALL	UCART2	480038.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.39E-06
843	ALL	UCART2	480117.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-06
844	ALL	UCART2	480196.9	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.99E-06
845	ALL	UCART2	480276	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.82E-06
846	ALL	UCART2	480355	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06
847	ALL	UCART2	480434.1	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-06
848	ALL	UCART2	480513.2	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-06
849	ALL	UCART2	480592.3	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-06
850	ALL	UCART2	480671.3	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.74E-06
851	ALL	UCART2	480750.4	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
852	ALL	UCART2	480829.5	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06
853	ALL	UCART2	480908.5	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
854	ALL	UCART2	480987.6	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-06
855	ALL	UCART2	481066.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-06
856	ALL	UCART2	481145.7	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06
857	ALL	UCART2	481224.8	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-06
858	ALL	UCART2	481303.9	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-06
859	ALL	UCART2	481383	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-06
860	ALL	UCART2	481462	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-06
861	ALL	UCART2	481541.1	3774769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-06
862	ALL	UCART2	479959.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-06
863	ALL	UCART2	480038.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-06
864	ALL	UCART2	480117.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.97E-06
865	ALL	UCART2	480196.9	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06
866	ALL	UCART2	480276	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.62E-06
867	ALL	UCART2	480355	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-06
868	ALL	UCART2	480434.1	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-06
869	ALL	UCART2	480513.2	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-06
870	ALL	UCART2	480592.3	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-06
871	ALL	UCART2	480671.3	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-06
872	ALL	UCART2	480750.4	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-06
873	ALL	UCART2	480829.5	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06
874	ALL	UCART2	480908.5	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.14E-06
875	ALL	UCART2	480987.6	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-06
876	ALL	UCART2	481066.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-06
877	ALL	UCART2	481145.7	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-06
878	ALL	UCART2	481224.8	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-06
879	ALL	UCART2	481303.9	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-06
880	ALL	UCART2	481383	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-06
881	ALL	UCART2	481462	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-06
882	ALL	UCART2	481541.1	3774788	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-06
883	ALL		479864.1	3774073	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
884	ALL		479887.9	3774070	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04
885	ALL		479901.1	3774139	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.28E-05
886	ALL		479776.3	3774150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
887	ALL		479737.3	3774106	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.87E-05
888	ALL		479857.1	3774102	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
889	ALL		479856.5	3774054	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
890	ALL		479923.4	3774051	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04

891	ALL	479923.4	3774009	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
892	ALL	479737.8	3774014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04

Appendix B

Biological Resources Attachments

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Yucaipa (3411711) OR San Bernardino South (3411713) OR Redlands (3411712) OR Harrison Mtn. (3411722) OR San Bernardino North (3411723) OR Keller Peak (3411721) OR Sunnymead (3311782) OR El Casco (3311781) OR Riverside East (3311783))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
Allium howellii var. clokeyi Mt. Pinos onion	PMLIL02161	None	None	G4T2	S2	1B.3
Allium marvinii Yucaipa onion	PMLIL02330	None	None	G1	S1	1B.2
Anniella stebbinsi Southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arenaria paludicola marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Artemisiospiza belli belli Bell's sage sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
Aspidoscelis hyperythra orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
Astragalus hornii var. hornii Horn's milk-vetch	PDFAB0F421	None	None	GUT1	S1	1B.1
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Atriplex coronata var. notatior San Jacinto Valley crownscale	PDCHE040C2	Endangered	None	G4T1	S1	1B.1
Atriplex serenana var. davidsonii Davidson's saltscale	PDCHE041T1	None	None	G5T1	S1	1B.2
Batrachoseps gabrieli San Gabriel slender salamander	AAAAD02110	None	None	G2G3	S2S3	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Berberis nevinii Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
Bombus crotchii Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
Bombus morrisoni Morrison bumble bee	IIHYM24460	None	None	G4G5	S1S2	
Brodiaea filifolia thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G2	S2	1B.1
Buteo regalis ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Calochortus palmeri var. palmeri Palmer's mariposa-lily	PMLIL0D122	None	None	G3T2	S2	1B.2
Calochortus plummerae Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
Canyon Live Oak Ravine Forest Canyon Live Oak Ravine Forest	CTT61350CA	None	None	G3	S3.3	
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Castilleja cinerea ash-gray paintbrush	PDSCR0D0H0	Threatened	None	G1G2	S1S2	1B.2
Castilleja lasiorhyncha San Bernardino Mountains owl's-clover	PDSCR0D410	None	None	G2?	S2?	1B.2
Catostomus santaanae Santa Ana sucker	AFCJC02190	Threatened	None	G1	S1	
Centromadia pungens ssp. laevis smooth tarplant	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
Ceratochrysis longimala Desert cuckoo wasp	IIHYM71040	None	None	G1	S1	
Chaetodipus fallax fallax northwestern San Diego pocket mouse	AMAFD05031	None	None	G5T3T4	S3S4	SSC
Charina umbratica southern rubber boa	ARADA01011	None	Threatened	G2G3	S2S3	
Chloropyron maritimum ssp. maritimum salt marsh bird's-beak	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
Chorizanthe parryi var. parryi Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
Chorizanthe xanti var. leucotheca white-bracted spineflower	PDPGN040Z1	None	None	G4T3	S3	1B.2
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Coleonyx variegatus abbotti San Diego banded gecko	ARACD01031	None	None	G5T5	S1S2	SSC
Crotalus ruber red-diamond rattlesnake	ARADE02090	None	None	G4	S3	SSC
Cuscuta obtusiflora var. glandulosa Peruvian dodder	PDCUS01111	None	None	G5T4?	SH	2B.2
Diadophis punctatus modestus San Bernardino ringneck snake	ARADB10015	None	None	G5T2T3	S2?	
Diplectrona californica California diplectronan caddisfly	IITRI23010	None	None	G1G2	S1S2	
Dipodomys merriami parvus San Bernardino kangaroo rat	AMAFD03143	Endangered	Candidate Endangered	G5T1	S1	SSC
Dipodomys stephensi Stephens' kangaroo rat	AMAFD03100	Endangered	Threatened	G2	S2	
Dodecahema leptoceras slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Empidonax traillii extimus southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eremophila alpestris actia California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Eriastrum densifolium ssp. sanctorum Santa Ana River woollystar	PDPLM03035	Endangered	Endangered	G4T1	S1	1B.1
Euchloe hyantis andrewsi Andrew's marble butterfly	IILEPA5032	None	None	G3G4T1	S1	
Eugnosta busckana Busck's gallmoth	IILEM2X090	None	None	G1G3	SH	
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
Euphydryas editha quino quino checkerspot butterfly	IILEPK405L	Endangered	None	G5T1T2	S1S2	
Falco columbarius merlin	ABNKD06030	None	None	G5	S3S4	WL
Fimbristylis thermalis hot springs fimbristylis	PMCYP0B0N0	None	None	G4	S1S2	2B.2
Galium californicum ssp. primum Alvin Meadow bedstraw	PDRUB0N0E6	None	None	G5T2	S2	1B.2
Gila orcuttii arroyo chub	AFCJB13120	None	None	G2	S2	SSC

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Glaucomys oregonensis californicus San Bernardino flying squirrel	AMAFB09021	None	None	G5T1T2	S1S2	SSC
Haliaeetus leucocephalus bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
Helianthus nuttallii ssp. parishii Los Angeles sunflower	PDAST4N102	None	None	G5TX	SX	1A
Heuchera parishii Parish's alumroot	PDSAX0E1F0	None	None	G3	S3	1B.3
Horkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Icteria virens yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
Imperata brevifolia California satintail	PMPOA3D020	None	None	G4	S3	2B.1
Ivesia argyrocoma var. argyrocoma silver-haired ivesia	PDROS0X021	None	None	G2T2	S2	1B.2
Lanius ludovicianus loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
Lasiurus xanthinus western yellow bat	AMACC05070	None	None	G4G5	S3	SSC
Lasthenia glabrata ssp. coulteri Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
Laterallus jamaicensis coturniculus California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
Lepidium virginicum var. robinsonii Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
Leptonycteris yerbabuenae lesser long-nosed bat	AMACB03030	Delisted	None	G3	S1	SSC
Lepus californicus bennettii San Diego black-tailed jackrabbit	AMAEB03051	None	None	G5T3T4	S3S4	SSC
Lilium parryi lemon lily	PMLIL1A0J0	None	None	G3	S3	1B.2
Lycium parishii Parish's desert-thorn	PDSOL0G0D0	None	None	G4	S1	2B.3
Malacothamnus parishii Parish's bush-mallow	PDMAL0Q0C0	None	None	GXQ	SX	1A
Monardella macrantha ssp. hallii Hall's monardella	PDLAM180E1	None	None	G5T3	S3	1B.3
Monardella pringlei Pringle's monardella	PDLAM180J0	None	None	GX	SX	1A
Nama stenocarpa mud nama	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Nasturtium gambelii Gambel's water cress	PDBRA270V0	Endangered	Threatened	G1	S1	1B.1
Neolarra alba white cuckoo bee	IIHYM81010	None	None	GH	SH	
Neotamias speciosus speciosus lodgepole chipmunk	AMAFB02172	None	None	G4T3T4	S2S3	
Neotoma lepida intermedia San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
Nyctinomops femorosaccus pocketed free-tailed bat	AMACD04010	None	None	G5	S3	SSC
Oncorhynchus mykiss irideus pop. 10 steelhead - southern California DPS	AFCHA0209J	Endangered	None	G5T1Q	S1	
Onychomys torridus ramona southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC
Packera bernardina San Bernardino ragwort	PDAST8H0E0	None	None	G2	S2	1B.2
Perideridia parishii ssp. parishii Parish's yampah	PDAPI1N0C2	None	None	G4T3T4	S2	2B.2
Perognathus alticola alticola white-eared pocket mouse	AMAFD01081	None	None	G2TH	SH	SSC
Perognathus longimembris brevinasus Los Angeles pocket mouse	AMAFD01041	None	None	G5T2	S1S2	SSC
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Plegadis chihi white-faced ibis	ABNGE02020	None	None	G5	S3S4	WL
Polioptila californica californica coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T3Q	S2	SSC
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Rana muscosa southern mountain yellow-legged frog	AAABH01330	Endangered	Endangered	G1	S1	WL
Rhaphiomidas terminatus abdominalis Delhi Sands flower-loving fly	IIDIP05021	Endangered	None	G1T1	S1	
Rhinichthys osculus ssp. 8 Santa Ana speckled dace	AFCJB3705K	None	None	G5T1	S1	SSC
Ribes divaricatum var. parishii Parish's gooseberry	PDGRO020F3	None	None	G5TX	SX	1A
Riversidian Alluvial Fan Sage Scrub Riversidian Alluvial Fan Sage Scrub	CTT32720CA	None	None	G1	S1.1	
Salvadora hexalepis virgultea coast patch-nosed snake	ARADB30033	None	None	G5T4	S2S3	SSC

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Schoenus nigricans black bog-rush	PMCYP0P010	None	None	G4	S2	2B.2
Senecio aphanactis chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
Setophaga petechia yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
Sidalcea hickmanii ssp. parishii Parish's checkerbloom	PDMAL110A3	None	Rare	G3T1	S1	1B.2
Sidalcea malviflora ssp. dolosa Bear Valley checkerbloom	PDMAL110FH	None	None	G5T2	S2	1B.2
Sidalcea neomexicana salt spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
Sidalcea pedata bird-foot checkerbloom	PDMAL110L0	Endangered	Endangered	G1	S1	1B.1
Southern Coast Live Oak Riparian Forest Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Cottonwood Willow Riparian Forest Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Mixed Riparian Forest Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
Southern Riparian Forest Southern Riparian Forest	CTT61300CA	None	None	G4	S4	
Southern Riparian Scrub Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Sycamore Alder Riparian Woodland Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Willow Scrub Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Spea hammondii western spadefoot	AAABF02020	None	None	G2G3	S3	SSC
Sphenopholis obtusata prairie wedge grass	PMPOA5T030	None	None	G5	S2	2B.2
Spinus lawrencei Lawrence's goldfinch	ABPBY06100	None	None	G3G4	S4	
Streptanthus bernardinus Laguna Mountains jewelflower	PDBRA2G060	None	None	G3G4	S3S4	4.3
Streptanthus campestris southern jewelflower	PDBRA2G0B0	None	None	G3	S3	1B.3
Streptocephalus woottoni Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S1S2	
Symphyotrichum defoliatum San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Thamnophis hammondii	ARADB36160	None	None	G4	S3S4	SSC
two-striped gartersnake						
Thelypteris puberula var. sonorensis	PPTHE05192	None	None	G5T3	S2	2B.2
Sonoran maiden fern						
Trichocoronis wrightii var. wrightii	PDAST9F031	None	None	G4T3	S1	2B.1
Wright's trichocoronis						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						

Record Count: 128

Inventory of Rare and Endangered Plants of California

California Native Plant Society

Search Results

89 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [**3411711:3411713:3411712:3411722:3411723:3411721:3311782:3311781:3311783**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	PHOTO
Abronia villosa var. *aurita*	chaparral sand-verbena	Nyctaginaceae	annual herb	(Jan)Mar-Sep	None	None	G5T2?	S2	1B.1	No Photo Available
Acanthoscyphus parishii var. *parishii*	Parish's oxytheca	Polygonaceae	annual herb	Jun-Sep	None	None	G4?T3T4	S3S4	4.2	No Photo Available
Allium howellii var. *clokeyi*	Mt. Pinos onion	Alliaceae	perennial bulbiferous herb	Apr-Jun	None	None	G4T2	S2	1B.3	No Photo Available
Allium marvinii	Yucaipa onion	Alliaceae	perennial bulbiferous herb	Apr-May	None	None	G1	S1	1B.2	No Photo Available
Androsace elongata ssp. *acuta*	California androsace	Primulaceae	annual herb	Mar-Jun	None	None	G5?T3T4	S3S4	4.2	No Photo Available
Arenaria paludicola	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	May-Aug	FE	CE	G1	S1	1B.1	No Photo Available
Artemisia palmeri	San Diego sagewort	Asteraceae	perennial deciduous shrub	(Feb)May-Sep	None	None	G3?	S3?	4.2	No Photo Available
Asplenium vespertinum	western spleenwort	Aspleniaceae	perennial rhizomatous herb	Feb-Jun	None	None	G4	S4	4.2	No Photo Available
Astragalus hornii var. *hornii*	Horn's milk-vetch	Fabaceae	annual herb	May-Oct	None	None	GUT1	S1	1B.1	No Photo Available
Astragalus pachypus var. *jaegeri*	Jaeger's milk-vetch	Fabaceae	perennial shrub	Dec-Jun	None	None	G4T1	S1	1B.1	No Photo Available
Atriplex coronata var. *notatior*	San Jacinto Valley crownscale	Chenopodiaceae	annual herb	Apr-Aug	FE	None	G4T1	S1	1B.1	No Photo Available
Atriplex serenana var. *davidsonii*	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G5T1	S1	1B.2	No Photo Available
Berberis nevinii	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	FE	CE	G1	S1	1B.1	No Photo Available

Bouteloua trifida	three-awned grama	Poaceae	perennial herb	(Apr)May-Sep	None	None	G4G5	S3	2B.3	No Photo Available
Brodiaea filifolia	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	Mar-Jun	FT	CE	G2	S2	1B.1	No Photo Available
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	None	None	G3G4	S3S4	4.2	No Photo Available
Calochortus palmeri var. *palmeri*	Palmer's mariposa-lily	Liliaceae	perennial bulbiferous herb	Apr-Jul	None	None	G3T2	S2	1B.2	No Photo Available
Calochortus plummerae	Plummer's mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	G4	S4	4.2	No Photo Available
Calochortus simulans	La Panza mariposa-lily	Liliaceae	perennial bulbiferous herb	Apr-Jun	None	None	G2	S2	1B.3	No Photo Available
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	None	None	G5	S2	2B.1	Dean Wm. Taylor 1997
Castilleja cinerea	ash-gray paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Jun-Aug	FT	None	G1G2	S1S2	1B.2	No Photo Available
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	May-Aug	None	None	G2?	S2?	1B.2	No Photo Available
Castilleja montigena	Heckard's paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	May-Aug	None	None	G3	S3	4.3	No Photo Available
Caulanthus simulans	Payson's jewelflower	Brassicaceae	annual herb	(Feb)Mar-May(Jun)	None	None	G4	S4	4.2	No Photo Available
Centromadia pungens ssp. *laevis*	smooth tarplant	Asteraceae	annual herb	Apr-Sep	None	None	G3G4T2	S2	1B.1	No Photo Available
Chloropyron maritimum ssp. *maritimum*	salt marsh bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct(Nov)	FE	CE	G4?T1	S1	1B.2	No Photo Available
Chorizanthe leptotheca	Peninsular spineflower	Polygonaceae	annual herb	May-Aug	None	None	G3	S3	4.2	No Photo Available
Chorizanthe parryi var. *parryi*	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	None	None	G3T2	S2	1B.1	No Photo Available
Chorizanthe xanti	white-bracted	Polygonaceae	annual herb	Apr-Jun	None	None	G4T3	S3	1B.2	

Chorizanthe xanti var. *leucotheca*	white-bracted spineflower	Polygonaceae	annual herb	Apr-Jun	None	None	G4T3	S3	1B.2	No Photo Available
Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	None	None	G4	S4	4.2	No Photo Available
Cuscuta obtusiflora var. *glandulosa*	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	None	None	G5T4?	SH	2B.2	No Photo Available
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov	None	None	G4	S4	4.2	No Photo Available
Diplacus clevelandii	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	Apr-Jul	None	None	G4	S4	4.2	© 2020 W. Juergen Schrenk
Dodecahema leptoceras	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	FE	CE	G1	S1	1B.1	No Photo Available
Eriastrum densifolium ssp. *sanctorum*	Santa Ana River woollystar	Polemoniaceae	perennial herb	Apr-Sep	FE	CE	G4T1	S1	1B.1	No Photo Available
Eriophyllum lanatum var. *obovatum*	southern Sierra woolly sunflower	Asteraceae	perennial herb	Jun-Jul	None	None	G5T4	S4	4.3	No Photo Available
Erythranthe exigua	San Bernardino Mountains monkeyflower	Phrymaceae	annual herb	May-Jul	None	None	G2	S2	1B.2	No Photo Available
Fimbristylis thermalis	hot springs fimbristylis	Cyperaceae	perennial rhizomatous herb	Jul-Sep	None	None	G4	S1S2	2B.2	No Photo Available
Frasera neglecta	pine green-gentian	Gentianaceae	perennial herb	May-Jul	None	None	G4	S4	4.3	No Photo Available
Fritillaria pinetorum	pine fritillary	Liliaceae	perennial bulbiferous herb	May-Jul(Sep)	None	None	G4	S4	4.3	No Photo Available
Galium californicum ssp. *primum*	Alvin Meadow bedstraw	Rubiaceae	perennial herb	May-Jul	None	None	G5T2	S2	1B.2	No Photo Available
Galium johnstonii	Johnston's bedstraw	Rubiaceae	perennial herb	Jun-Jul	None	None	G4	S4	4.3	No Photo Available
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	None	None	G5TX	SX	1A	No Photo Available
Heuchera caespitosa	urn-flowered alumroot	Saxifragaceae	perennial rhizomatous herb	May-Aug	None	None	G3	S3	4.3	No Photo Available

Heuchera parishii	Parish's alumroot	Saxifragaceae	perennial rhizomatous herb	Jun-Aug	None	None	G3	S3	1B.3	No Photo Available
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	None	None	G3G4	S3S4	3.2	No Photo Available
Horkelia cuneata var. *puberula*	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	None	None	G4T1	S1	1B.1	No Photo Available
Hulsea vestita ssp. *parryi*	Parry's sunflower	Asteraceae	perennial herb	Apr-Aug	None	None	G5T4	S4	4.3	No Photo Available
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	None	None	G4	S3	2B.1	No Photo Available
Ivesia argyrocoma var. *argyrocoma*	silver-haired ivesia	Rosaceae	perennial herb	Jun-Aug	None	None	G2T2	S2	1B.2	No Photo Available
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	None	None	G4	S4	4.2	No Photo Available
Juncus duranii	Duran's rush	Juncaceae	perennial rhizomatous herb	Jul-Aug	None	None	G3	S3	4.3	No Photo Available
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	None	None	G4T2	S2	1B.1	No Photo Available
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	None	None	G5T3	S3	4.3	No Photo Available
Lilium humboldtii ssp. *ocellatum*	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	None	None	G4T4?	S4?	4.2	No Photo Available
Lilium parryi	lemon lily	Liliaceae	perennial bulbiferous herb	Jul-Aug	None	None	G3	S3	1B.2	No Photo Available
Lycium parishii	Parish's desert-thorn	Solanaceae	perennial shrub	Mar-Apr	None	None	G4	S1	2B.3	No Photo Available
Malacothamnus parishii	Parish's bush-mallow	Malvaceae	perennial deciduous shrub	Jun-Jul	None	None	GXQ	SX	1A	© 2021 Keir Morse
Monardella macrantha ssp. *hallii*	Hall's monardella	Lamiaceae	perennial rhizomatous herb	Jun-Oct	None	None	G5T3	S3	1B.3	No Photo Available

Monardella pringlei	Pringle's monardella	Lamiaceae	annual herb	May-Jun	None	None	GX	SX	1A	No Photo Available
Muhlenbergia californica	California muhly	Poaceae	perennial rhizomatous herb	Jun-Sep	None	None	G4	S4	4.3	No Photo Available
Muilla coronata	crowned muilla	Themidaceae	perennial bulbiferous herb	Mar-Apr(May)	None	None	G3	S3	4.2	No Photo Available
Nama stenocarpa	mud nama	Namaceae	annual/perennial herb	Jan-Jul	None	None	G4G5	S1S2	2B.2	No Photo Available
Nasturtium gambelii	Gambel's water cress	Brassicaceae	perennial rhizomatous herb	Apr-Oct	FE	CT	G1	S1	1B.1	No Photo Available
Packera bernardina	San Bernardino ragwort	Asteraceae	perennial herb	May-Jul	None	None	G2	S2	1B.2	No Photo Available
Perideridia parishii ssp. *parishii*	Parish's yampah	Apiaceae	perennial herb	Jun-Aug	None	None	G4T3T4	S2	2B.2	No Photo Available
Phacelia mohavensis	Mojave phacelia	Hydrophyllaceae	annual herb	Apr-Aug	None	None	G4Q	S4	4.3	No Photo Available
Phacelia stellaris	Brand's star phacelia	Hydrophyllaceae	annual herb	Mar-Jun	None	None	G1	S1	1B.1	No Photo Available
Piperia leptopetala	narrow-petaled rein orchid	Orchidaceae	perennial herb	May-Jul	None	None	G4	S4	4.3	No Photo Available
Pseudorontium cyathiferum	Deep Canyon snapdragon	Plantaginaceae	annual herb	Feb-Apr	None	None	G4G5	S1	2B.3	No Photo Available
Quercus engelmannii	Engelmann oak	Fagaceae	perennial deciduous tree	Mar-Jun	None	None	G3	S3	4.2	No Photo Available
Ribes divaricatum var. *parishii*	Parish's gooseberry	Grossulariaceae	perennial deciduous shrub	Feb-Apr	None	None	G5TX	SX	1A	No Photo Available
Romneya coulteri	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar-Jul(Aug)	None	None	G4	S4	4.2	No Photo Available
Rupertia rigida	Parish's rupertia	Fabaceae	perennial herb	Jun-Aug	None	None	G4	S4	4.3	No Photo Available
Schoenus nigricans	black bog-rush	Cyperaceae	perennial herb	Aug-Sep	None	None	G4	S2	2B.2	No Photo Available
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	None	None	G3	S2	2B.2	No Photo

										Available
Senecio astephanus	San Gabriel ragwort	Asteraceae	perennial herb	May-Jul	None	None	G3	S3	4.3	No Photo Available
Sidalcea hickmanii ssp. *parishii*	Parish's checkerbloom	Malvaceae	perennial herb	(May)Jun-Aug	None	CR	G3T1	S1	1B.2	No Photo Available
Sidalcea malviflora ssp. *dolosa*	Bear Valley checkerbloom	Malvaceae	perennial herb	May-Aug	None	None	G5T2	S2	1B.2	No Photo Available
Sidalcea neomexicana	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	None	None	G4	S2	2B.2	No Photo Available
Sidalcea pedata	bird-foot checkerbloom	Malvaceae	perennial herb	May-Aug	FE	CE	G1	S1	1B.1	No Photo Available
Sidotheca caryophylloides	chickweed oxytheca	Polygonaceae	annual herb	Jul-Sep(Oct)	None	None	G4	S4	4.3	©2021 Keir Morse
Sphenopholis obtusata	prairie wedge grass	Poaceae	perennial herb	Apr-Jul	None	None	G5	S2	2B.2	No Photo Available
Streptanthus bernardinus	Laguna Mountains jewelflower	Brassicaceae	perennial herb	May-Aug	None	None	G3G4	S3S4	4.3	No Photo Available
Streptanthus campestris	southern jewelflower	Brassicaceae	perennial herb	(Apr)May-Jul	None	None	G3	S3	1B.3	No Photo Available
Symphyotrichum defoliatum	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	None	None	G2	S2	1B.2	No Photo Available
Thelypteris puberula var. *sonorensis*	Sonoran maiden fern	Thelypteridaceae	perennial rhizomatous herb	Jan-Sep	None	None	G5T3	S2	2B.2	No Photo Available
Trichocoronis wrightii var. *wrightii*	Wright's trichocoronis	Asteraceae	annual herb	May-Sep	None	None	G4T3	S1	2B.1	No Photo Available
Yucca brevifolia							GNR	SNR	CBR	No Photo Available

Showing 1 to 89 of 89 entries

Suggested Citation:

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Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Invertebrates				
Bombus crotchii	Crotch bumble bee	None/None	Open grassland and scrub communities supporting suitable floral resources.	Not expected to occur. Suitable habitat is not present to support this species.
Carolella busckana	Busck's gallmoth	None/None	Coastal scrub dunes	Not expected to occur. Suitable habitat is not present to support this species.
Ceratochrysis longimala	Desert cuckoo wasp	None/None		Not expected to occur. Suitable habitat is not present to support this species.
Diplectrona californica	California diplectronan caddisfly	None/None		Not expected to occur. Suitable habitat is not present to support this species.
Euchloe hyantis andrewsi	Andrew's marble butterfly	None/None	Yellow pine forest; host plants are Laguna Mountains jewel-flower (Streptanthus bernardinus) and Holboell's rockcress (Boechera pinetorum (Arabis holboellii var. pinetorum))	Not expected to occur. Suitable habitat is not present to support this species.
Euphydryas editha quino	quino checkerspot butterfly	FE/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clay; host plants include Plantago erecta, Antirrhinum coulterianum, and Plantago patagonica (Silverado Occurrence Complex)	Not expected to occur. Suitable habitat is not present to support this species. No suitable vegetation is present to support this species.
Neolarra alba	white cuckoo bee	None/None	Known only from 6 historical localities in Southern California; has not been collected since 1946	Not expected to occur. Suitable habitat is not present to support this species. Species considered extirpated.
Rhaphiomidas terminatus abdominalis	Delhi Sands flower-loving fly	FE/None	Delhi fine sandy soils and dunes, scrub and ruderal vegetation in the sand verbena series with <50% cover	Not expected to occur. Delhi sands are not present to support this species.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Fish				
Catostomus santaanae	Santa Ana sucker	FT/None	Small, shallow, cool, clear streams less than 7 meters (23 feet) in width and a few centimeters to more than a meter (1.5 inches to more than 3 feet) in depth; substrates are generally coarse gravel, rubble, and boulder	Not expected to occur. Suitable water resources are not present to support this species.
Gila orcuttii	arroyo chub	None/SSC	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	Not expected to occur. Suitable water resources are not present to support this species.
Oncorhynchus mykiss irideus pop. 10	southern steelhead - southern California DPS	FE/None	Clean, clear, cool, well-oxygenated streams; needs relatively deep pools in migration and gravelly substrate to spawn	Not expected to occur. Suitable water resources are not present to support this species.
Rhinichthys osculus ssp. 8	Santa Ana speckled dace	None/SSC	Headwaters of the Santa Ana and San Gabriel Rivers; may be extirpated from the Los Angeles River system	Not expected to occur. Suitable water resources are not present to support this species.
Amphibians				
Batrachoseps gabrieli	San Gabriel slender salamander	None/None	Talus slopes in forested areas, often near streams	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Rana draytonii	California red-legged frog	FT, BCC/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Rana muscosa	mountain yellow-legged frog	FE/SE, WL	Lakes, ponds, meadow streams, isolated pools, and open	Not expected to occur. Suitable vegetation and water resources are not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
			riverbanks; rocky canyons in narrow canyons and in chaparral	
Spea hammondii	western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Reptiles				
Actinemys marmorata	northwestern pond turtle	None/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Anniella stebbinsi	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. Suitable vegetation is not present to support this species. Nearest CNDDB occurrence was reported in 2016 and is located approximately 2.3 miles southeast.
Arizona elegans occidentalis	California glossy snake	None/SSC	Arid scrub, rocky washes, grasslands, chaparral, open areas with loose soil	Low potential to occur. Limited suitable grassland habitat present adjacent to the site, but soils are too firm for this species. The site is also cut off from open areas by industrial and commercial development. The nearest CNDDB occurrence was reported in 2013 and is located approximately 1.4 miles southwest of the site (CDFW 2021).
Aspidoscelis hyperythra	orange-throated whiptail	None/WL	Low-elevation coastal scrub, chaparral, and valley–foothill hardwood	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Aspidoscelis tigris stejnegeri	San Diegan tiger whiptail	None/SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Not expected to occur. Suitable habitat is not present to support this species.
Charina umbratica	southern rubber boa	None/ST	Montane oak–conifer and mixed-conifer forests, montane chaparral, wet meadows; usually in vicinity of streams or wet meadows	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Coleonyx variegatus abbotti	San Diego banded gecko	None/SSC	Rocky areas within coastal scrub and chaparral	Not expected to occur. Suitable habitat is not present to support this species.
Crotalus ruber	red diamondback rattlesnake	None/SSC	Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats	Not expected to occur. Suitable habitat is not present to support this species.
Diadophis punctatus modestus	San Bernardino ring-necked snake	None/None	Moist habitats including wet meadows, rocky hillsides, gardens, farmland grassland, chaparral, mixed-conifer forest, and woodland	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. Suitable habitat is not present to support this species.
Salvadora hexalepis virgultea	coast patch-nosed snake	None/SSC	Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites	Not expected to occur. Suitable habitat is not present to support this species.
Thamnophis hammondii	two-striped gartersnake	None/SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Birds				
Accipiter cooperii (nesting)	Cooper's hawk	None/WL	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Agelaius tricolor (nesting colony)	tricolored blackbird	None/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberrry; forages in grasslands, woodland, and agriculture	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Aimophila ruficeps canescens	Southern California rufous-crowned sparrow	None/WL	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	Not expected to occur. Suitable habitat is not present to support this species.
Aquila chrysaetos (nesting & wintering)	golden eagle	None/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Low potential to forage. Suitable foraging habitat is present adjacent to the project site. The nearest CNDDB occurrence was reported in 1980 and is located approximately 11.4 miles southeast of the site (CDFW 2021).
Artemisiospiza belli belli	Bell's sage sparrow	None/WL	Nests and forages in coastal scrub and dry chaparral; typically in large, unfragmented patches dominated by chamise; nests in more dense patches but uses more open habitat in winter	Not expected to occur. Suitable habitat is not present to support this species.
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	None/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Low potential to occur. Suitable habitat is present adjacent to the project site. However, ground squirrel burrows, or other approximately 4-inch sized burrows are not present to support nesting for this species. The nearest CNDDB occurrence was reported in 1983 and is located approximately 0.3 miles southeast of the site (CDFW 2021). There has been extensive industrial development in the surrounding area since the occurrence was last observed. A more recent CNDDB occurrence was observed in

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
				2006 approximately 1.2 miles west of the site (CDFW 2021).
Buteo regalis (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	Low potential to forage. Suitable, but heavily disturbed, foraging habitat is present adjacent to the site. The nearest CNDDB occurrence was reported in 2005 and is located approximately 11 miles south of the site (CDFW 2021).
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Low potential to forage. Suitable, but heavily disturbed, foraging habitat is present adjacent to the site. The nearest CNDDB occurrence is undated and is located approximately 3.1 miles west of the site (CDFW 2021).
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. Suitable habitat is not present to support this species.
Elanus leucurus (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Not expected to occur. Suitable habitat is not present to support this species.
Empidonax traillii extimus (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Eremophila alpestris actia	California horned lark	None/WL	This subspecies of horned lark occurs on the state's southern and central coastal slope and in the San Joaquin Valley. Nests and forages in grasslands, disturbed lands, agriculture, and beaches.	Low potential to occur. Limited suitable habitat is present adjacent to the project site. The nearest CNDDB occurrence was reported in 2001 and is located approximately 1.9 miles southwest of the site (CDFW 2021).

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Falco columbarius (wintering)	merlin	None/WL	Forages in semi-open areas, including coastline, grassland, agriculture, savanna, woodland, lakes, and wetlands	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Haliaeetus leucocephalus (nesting & wintering)	bald eagle	FPD/FP, SE	Nests in forested areas adjacent to large bodies of water, including seacoasts, rivers, swamps, large lakes; winters near large bodies of water in lowlands and mountains	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Icteria virens (nesting)	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. Suitable habitat is not present to support this species.
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Not expected to occur. Suitable habitat is not present to support this species.
Laterallus jamaicensis coturniculus	California black rail	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Plegadis chihi (nesting colony)	white-faced ibis	None/WL	Nests in shallow marshes with areas of emergent vegetation; winter foraging in shallow lacustrine waters, flooded agricultural fields, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Polioptila californica californica	coastal California gnatcatcher	FT, BCC/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
			greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	
Setophaga petechia (nesting)	yellow warbler	None/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Not expected to occur. Suitable habitat is not present to support this species.
Spinus lawrencei (nesting)	Lawrence's goldfinch	None/None	Nests and forages in open oak, arid woodlands, and chaparral near water	Not expected to occur. Suitable vegetation and water resources are not present to support this species.
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. Suitable habitat is not present to support this species.
Mammals				
Antrozous pallidus	pallid bat	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1929 and is located approximately 3.0 miles southeast of the site (CDFW 2021).
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	None/SSC	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon–juniper, and annual grassland	Not expected to occur. Suitable habitat is not present to support this species.
Dasypterus xanthinus	western yellow bat	None/SSC	Valley–foothill riparian, desert riparian, desert wash, and palm oasis habitats; below 2,000 feet above mean sea level; roosts in riparian and palms	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Dipodomys merriami parvus	San Bernardino kangaroo rat	FE/SSC, SCE	Sparse scrub habitat, alluvial scrub/coastal scrub habitats on gravelly and sandy soils near river and stream terraces	Not expected to occur. Suitable habitat is not present to support this species. While there are multiple nearby CNDDB occurrences, they are along the Santa Ana River to the south of the site, in suitable habitat. The nearest CNDDB occurrence was reported in 2017 and is located approximately 0.5 miles southeast of the site (CDFW 2021).
Dipodomys stephensi	Stephens' kangaroo rat	FE/ST	Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover, or in disturbed areas	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1976 and is located approximately 5.8 miles south of the site (CDFW 2021).
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. Suitable habitat is not present to support this species.
Glaucomys oregonensis californicus	San Bernardino flying squirrel	None/SSC	Coniferous and deciduous forests, including riparian forests	Not expected to occur. Suitable habitat is not present to support this species.
Leptonycteris yerbabuenae	lesser long-nosed bat	FPD/SSC	Sonoran desert scrub, semi-desert grasslands, lower oak woodlands	Not expected to occur. Suitable habitat is not present to support this species.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	BCC/SSC	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	Not expected to occur. Suitable habitat is not present to support this species.
Neotamias speciosus speciosus	lodgepole chipmunk	None/None	Lodgepole pine forests	Not expected to occur. Suitable habitat is not present to support this species.
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State Status	Habitat Associations	Potential to Occur in the Project Area
Nyctinomops femorosaccus	pocketed free-tailed bat	None/SSC	Pinyon–juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with drop-offs, caverns, and buildings	Not expected to occur. Suitable habitat is not present to support this species.
Onychomys torridus ramona	southern grasshopper mouse	None/SSC	Grassland and sparse coastal scrub	Not expected to occur. Suitable habitat is not present to support this species.
Perognathus alticola alticolus	white-eared pocket mouse	None/SSC	Arid ponderosa pine communities	Not expected to occur. Suitable habitat is not present to support this species.

Status Abbreviations
Federal
FE: Federally Endangered
FT: Federally Threatened
FC: Federal Candidate
BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern

State
SSC: California Species of Special Concern
FP: California Fully Protected Species
WL: California Watch List Species
SE: State Endangered
ST: State Threatened

Sources
CDFW (California Department of Fish and Wildlife). 2021. RareFind 5. California Natural Diversity Database. CDFW, Biogeographic Data Branch. Accessed November 2021. https://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Plants				
Abronia villosa var. aurita	chaparral sand-verbena	None/None/1B.1	Chaparral, Coastal scrub, Desert dunes; sandy/annual herb/(Jan)Mar–Sep/246–5,245	Not expected to occur. Suitable habitat is not present to support this species.
Acanthoscyphus parishii var. parishii	Parish's oxytheca	None/None/4.2	Chaparral, Lower montane coniferous forest; sandy or gravelly/annual herb/June–Sep/4,000–8,530	Not expected to occur. The site is outside of the species' known elevation range.
Allium howellii var. clokeyi	Mt. Pinos onion	None/None/1B.3	Great Basin scrub, Meadows and seeps (edges), Pinyon and juniper woodland/perennial bulbiferous herb/Apr–June/4,265–6,065	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Allium marvinii	Yucaipa onion	None/None/1B.2	Chaparral (clay, openings)/perennial bulbiferous herb/Apr–May/2,490–3,490	Not expected to occur. The site is outside of the species' known elevation range.
Androsace elongata ssp. acuta	California androsace	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Meadows and seeps, Pinyon and juniper woodland, Valley and foothill grassland/annual herb/Mar–June/492–4,280	Not expected to occur. Suitable habitat is not present to support this species.
Arenaria paludicola	marsh sandwort	FE/SE/1B.1	Marshes and swamps (freshwateror brackish); sandy, openings/perennial stoloniferous herb/May–Aug/10–560	Not expected to occur. The site is outside of the species' known elevation range.
Artemisia palmeri	San Diego sagewort	None/None/4.2	Chaparral, Coastal scrub, Riparian forest, Riparian scrub, Riparian woodland; sandy, mesic/perennial deciduous shrub/(Feb)May–Sep/49–3,000	Not expected to occur. Suitable habitat is not present to support this species.
Asplenium vespertinum	western spleenwort	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub; rocky/perennial rhizomatous herb/Feb–June/591–3,280	Not expected to occur. Suitable habitat and rocky substrate is not present to support this species.
Astragalus hornii var. hornii	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; lake margins, alkaline/annual herb/May–Oct/197–2,785	Not expected to occur. Suitable alkaline habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1900 and is located approximately 3.1 miles west of the site (CDFW 2021).
Astragalus pachypus var. jaegeri	Jaeger's bush milk-vetch	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; sandy	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence is

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
			or rocky/perennial shrub/Dec–June/1,195–3,195	located approximately 21.8 miles southeast of the site (CDFW 2021).
Atriplex coronata var. notatior	San Jacinto Valley crownscale	FE/None/1B.1	Playas, Valley and foothill grassland (mesic), Vernal pools; alkaline/annual herb/Apr–Aug/456–1,640	Not expected to occur. Suitable vernal pool, wetland, or alkali sink habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1992 and is located approximately 16.2 miles southeast of the site (CDFW 2021).
Atriplex serenana var. davidsonii	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; alkaline/annual herb/Apr–Oct/33–655	Not expected to occur. The site is outside of the species' known elevation range.
Berberis nevinii	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; sandy or gravelly/perennial evergreen shrub/(Feb)Mar–June/230–2,705	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in the 1990s and is located approximately 5.2 miles south of the site (CDFW 2021).
Bouteloua trifida	three-awned grama	None/None/2B.3	Mojavean desert scrub (carbonate, rocky)/perennial herb/(Apr)May–Sep/2,295–6,560	Not expected to occur. The site is outside of the species' known elevation range.
Brodiaea filifolia	thread-leaved brodiaea	FT/SE/1B.1	Chaparral (openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools; often clay/perennial bulbiferous herb/Mar–June/82–3,670	Not expected to occur. Suitable habitat is not present to support this species. In addition, while this species prefers clay soils, the soils found on the site are a gravelly, loamy sand. The nearest CNDDB occurrence was reported in 1993 and is located approximately 5.9 miles northwest of the site (CDFW 2021).
Calochortus catalinae	Catalina mariposa lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/(Feb)Mar–June/49–2,295	Low potential to occur. Non-native, disturbed grasslands are present adjacent to the project site, and have limited potential to support this species. While exact locations and dates have not been listed, there have been CNPS occurrences reported within the San Bernardino North 7.5-minute USGS quad (CalFlora 2021).
Calochortus palmeri var. palmeri	Palmer's mariposa lily	None/None/1B.2	Chaparral, Lower montane coniferous forest, Meadows and seeps; mesic/perennial bulbiferous herb/Apr–July/2,325–7,840	Not expected to occur. The site is outside of the species' known elevation range.
Calochortus plummerae	Plummer's mariposa lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; granitic,	Low potential to occur. Non-native, disturbed grasslands are present adjacent to the project site, and have limited potential to support this species. However, rocky soil preferred by this species is not present on site. The

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
			rocky/perennial bulbiferous herb/May–July/328–5,575	nearest CNDDB occurrence was reported in 2004 and is located approximately 3.2 miles northeast of the site (CDFW 2021).
Calochortus simulans	La Panza mariposa lily	None/None/1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland; sandy, often granitic, sometimes serpentinite/perennial bulbiferous herb/Apr–June/1,065–3,770	Not expected to occur. While non-native, disturbed grasslands are present adjacent to the project site, and have limited potential to support this species, this is a species typically observed to the north of the Los Padres National Forest. An occurrence in the San Bernardino North 7.5-minute USGS quad has been reported, however, given the typical range of this species, and the singular observation, this occurrence is most likely a misidentification (CNPS 2021).
Carex comosa	bristly sedge	None/None/2B.1	Coastal prairie, Marshes and swamps (lake margins), Valley and foothill grassland/perennial rhizomatous herb/May–Sep/0–2,050	Not expected to occur. Suitable wetland habitat is not present to support this species. The nearest CNDDB occurrence was recorded in 1884 and is located approximately 4.5 miles southwest of the site (CDFW 2021).
Castilleja cinerea	ash-gray paintbrush	FT/None/1B.2	Mojavean desert scrub, Meadows and seeps, Pebble (Pavement) plain, Pinyon and juniper woodland, Upper montane coniferous forest (clay openings)/perennial herb (hemiparasitic)/June–Aug/5,905–9,710	Not expected to occur. The site is outside of the species' known elevation range.
Castilleja lasiorhyncha	San Bernardino Mountains owl's-clover	None/None/1B.2	Chaparral, Meadows and seeps, Pebble (Pavement) plain, Riparian woodland, Upper montane coniferous forest; mesic/annual herb (hemiparasitic)/May–Aug/4,265–7,840	Not expected to occur. The site is outside of the species' known elevation range.
Castilleja montigena	Heckard's paintbrush	None/None/4.3	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest/perennial herb (hemiparasitic)/May–Aug/6,395–9,185	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Caulanthus simulans	Payson's jewelflower	None/None/4.2	Chaparral, Coastal scrub; sandy, granitic/annual herb/(Feb)Mar–May(June)/295–7,215	Not expected to occur. Suitable habitat is not present to support this species.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Centromadia pungens ssp. laevis	smooth tarplant	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland; alkaline/annual herb/Apr–Sep/0–2,095	Moderate potential to occur. Non-native, disturbed grasslands are present adjacent to the project site and have potential to support this species. Suitable soils are also present to support this species. In addition, this species is known to do well in disturbed areas. The nearest, recent CNDDB occurrence was reported in 2016 and is located approximately 3.7 miles southwest of the site (CDFW 2021).
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	FE/SE/1B.2	Coastal dunes, Marshes and swamps (coastal salt)/annual herb (hemiparasitic)/May–Oct(Nov)/0–100	Not expected to occur. The site is outside of the species' known elevation range.
Chorizanthe leptotheca	Peninsular spineflower	None/None/4.2	Chaparral, Coastal scrub, Lower montane coniferous forest; alluvial fan, granitic/annual herb/May–Aug/984–6,230	Not expected to occur. Suitable habitat is not present to support this species.
Chorizanthe parryi var. parryi	Parry's spineflower	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; sandy or rocky, openings/annual herb/Apr–June/902–4,000	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1919 and is located approximately 0.7 miles northeast of the site (CDFW 2021). More recent occurrences are in the area but occur farther than 5 miles from the site.
Chorizanthe xanti var. leucotheca	white-bracted spineflower	None/None/1B.2	Coastal scrub (alluvial fans), Mojavean desert scrub, Pinyon and juniper woodland; sandy or gravelly/annual herb/Apr–June/984–3,935	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2011 and located approximately 8.9 miles east of the site (CDFW 2021).
Convolvulus simulans	small-flowered morning-glory	None/None/4.2	Chaparral (openings), Coastal scrub, Valley and foothill grassland; clay, serpentinite seeps/annual herb/Mar–July/98–2,425	Not expected to occur. Suitable habitat is not present to support this species.
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	None/None/2B.2	Marshes and swamps (freshwater)/annual vine (parasitic)/July–Oct/49–920	Not expected to occur. The site is outside of the species' known elevation range.
Deinandra paniculata	paniculate tarplant	None/None/4.2	Coastal scrub, Valley and foothill grassland, Vernal pools; usually vernally mesic, sometimes sandy/annual herb/(Mar)Apr–Nov(Dec)/82–3,080	Not expected to occur. Suitable habitat is not present to support this species.
Diplacus clevelandii	Cleveland's bush monkeyflower	None/None/4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest; Gabbroic, often	Not expected to occur. The site is outside of the species' known elevation range.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
			in disturbed areas, openings, rocky/perennial rhizomatous herb/Apr–July/1,475–6,560	
Dodecahema leptoceras	slender-horned spineflower	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub (alluvial fan); sandy/annual herb/Apr–June/656–2,490	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2010 and is located approximately 1.8 miles southeast of the site (CDFW 2021).
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	FE/SE/1B.1	Chaparral, Coastal scrub (alluvial fan); sandy or gravelly/perennial herb/Apr–Sep/299–2,000	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2021 and is located approximately 0.5 miles southeast of the site (CDFW 2021).
Eriophyllum lanatum var. obovatum	southern Sierra woolly sunflower	None/None/4.3	Lower montane coniferous forest, Upper montane coniferous forest; sandy loam/perennial herb/June–July/3,650–8,200	Not expected to occur. The site is outside of the species' known elevation range.
Erythranthe exigua	San Bernardino Mountains monkeyflower	None/None/1B.2	Meadows and seeps, Pebble (Pavement) plain, Upper montane coniferous forest; mesic, clay/annual herb/May–July/5,905–7,595	Not expected to occur. The site is outside of the species' known elevation range.
Fimbristylis thermalis	hot springs fimbristylis	None/None/2B.2	Meadows and seeps (alkaline, near hot springs)/perennial rhizomatous herb/July–Sep/361–4,395	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2005 and is located approximately 6 miles northwest of the site (CDFW 2021).
Frasera neglecta	pine green-gentian	None/None/4.3	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest/perennial herb/May–July/4,590–8,200	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Fritillaria pinetorum	pine fritillary	None/None/4.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland, Subalpine coniferous forest, Upper montane coniferous forest; granitic or metamorphic/perennial bulbiferous herb/May–July(Sep)/5,690–10,825	Not expected to occur. The site is outside of the species' known elevation range.
Galium californicum ssp. primum	Alvin Meadow bedstraw	None/None/1B.2	Chaparral, Lower montane coniferous forest; granitic, sandy/perennial herb/May–July/4,425–5,575	Not expected to occur. The site is outside of the species' known elevation range.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Galium johnstonii	Johnston's bedstraw	None/None/4.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland, Riparian woodland/perennial herb/June–July/4,000–7,545	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	None/None/1A	Marshes and swamps (coastal salt and freshwater)/perennial rhizomatous herb/Aug–Oct/33–5,000	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1937 and is located approximately 4.5 miles southwest of the site (CDFW 2021).
Heuchera caespitosa	urn-flowered alumroot	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Riparian forest (montane), Upper montane coniferous forest; rocky/perennial rhizomatous herb/May–Aug/3,785–8,690	Not expected to occur. The site is outside of the species' known elevation range.
Heuchera parishii	Parish's alumroot	None/None/1B.3	Alpine boulder and rock field, Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest; rocky, sometimes carbonate/perennial rhizomatous herb/June–Aug/4,920–12,465	Not expected to occur. The site is outside of the species' known elevation range.
Hordeum intercedens	vernal barley	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (saline flats and depressions), Vernal pools/annual herb/Mar–June/16–3,280	Not expected to occur. Suitable habitat is not present to support this species.
Horkelia cuneata var. puberula	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; sandy or gravelly/perennial herb/Feb–July(Sep)/230–2,655	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1888 and is located approximately 7.1 miles west of the site (CDFW 2021).
Hulsea vestita ssp. parryi	Parry's sunflower	None/None/4.3	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest; granitic or carbonate, rocky, openings/perennial herb/Apr–Aug/4,490–9,495	Not expected to occur. The site is outside of the species' known elevation range.
Imperata brevifolia	California satintail	None/None/2B.1	Chaparral, Coastal scrub, Mojavean desert scrub, Meadows and seeps (often alkali), Riparian scrub; mesic/perennial rhizomatous herb/Sep–May/0–3,985	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrences was reported in 2010 and is located approximately 2.4 miles northeast of the site (CDFW 2021).

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Ivesia argyrocoma var. argyrocoma	silver-haired ivesia	None/None/1B.2	Meadows and seeps (alkaline), Pebble (Pavement) plain, Upper montane coniferous forest/perennial herb/(May)June–Aug/4,795–9,710	Not expected to occur. The site is outside of the species' known elevation range.
Juglans californica	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; alluvial/perennial deciduous tree/Mar–Aug/164–2,950	Not expected to occur. Suitable habitat is not present to support this species.
Juncus duranii	Duran's rush	None/None/4.3	Lower montane coniferous forest, Meadows and seeps, Upper montane coniferous forest; mesic/perennial rhizomatous herb/July–Aug/5,800–9,195	Not expected to occur. The site is outside of the species' known elevation range.
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None/None/1B.1	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/3–4,000	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2004 and is located approximately 15.3 miles southeast of the site (CDFW 2021).
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	None/None/4.3	Chaparral, Coastal scrub/annual herb/Jan–July/3–2,900	Not expected to occur. Suitable habitat is not present to support this species.
Lilium humboldtii ssp. ocellatum	ocellated Humboldt lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland; openings/perennial bulbiferous herb/Mar–July(Aug)/98–5,905	Not expected to occur. Suitable habitat is not present to support this species.
Lilium parryi	lemon lily	None/None/1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest; mesic/perennial bulbiferous herb/July–Aug/4,000–9,005	Not expected to occur. The site is outside of the species' known elevation range.
Lycium parishii	Parish's desert-thorn	None/None/2B.3	Coastal scrub, Sonoran desert scrub/perennial shrub/Mar–Apr/443–3,280	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1885 and is located approximately 3.8 miles northwest of the site (CDFW 2021).
Malacothamnus parishii	Parish's bush-mallow	None/None/1A	Chaparral, Coastal scrub/perennial deciduous shrub/June–July/1,000–1,490	Not expected to occur. Suitable habitat is not present to support this species. While a historic CNDDB occurrence from 1895 is located on the site, the site has since been developed and surrounding areas disturbed, and suitable habitat is no longer present.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Monardella macrantha ssp. hallii	Hall's monardella	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/June–Oct/2,395–7,200	Not expected to occur. The site is outside of the species' known elevation range.
Monardella pringlei	Pringle's monardella	None/None/1A	Coastal scrub (sandy)/annual herb/May–June/984–1,310	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1941 and is located approximately 7.1 miles west of the site (CDFW 2021).
Muhlenbergia californica	California muhly	None/None/4.3	Chaparral, Coastal scrub, Lower montane coniferous forest, Meadows and seeps; mesic, seeps and streambanks/perennial rhizomatous herb/June–Sep/328–6,560	Not expected to occur. Suitable habitat is not present to support this species.
Muilla coronata	crowned muilla	None/None/4.2	Chenopod scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland/perennial bulbiferous herb/Mar–Apr(May)/2,195–6,430	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Nama stenocarpa	mud nama	None/None/2B.2	Marshes and swamps (lake margins, riverbanks)/annual / perennial herb/Jan–July/16–1,640	Not expected to occur. Suitable marsh and swamp habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2010 and is located approximately 18.3 miles southeast of the site (CDFW 2021).
Nasturtium gambelii	Gambel's water cress	FE/ST/1B.1	Marshes and swamps (freshwater or brackish)/perennial rhizomatous herb/Apr–Oct/16–1,080	Not expected to occur. Suitable marsh and swamp habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1935 and is located approximately 3.7 miles west of the site (CDFW 2021).
Packera bernardina	San Bernardino ragwort	None/None/1B.2	Meadows and seeps (mesic, sometimes alkaline), Pebble (Pavement) plain, Upper montane coniferous forest/perennial herb/May–July/5,905–7,545	Not expected to occur. The site is outside of the species' known elevation range.
Perideridia parishii ssp. parishii	Parish's yampah	None/None/2B.2	Lower montane coniferous forest, Meadows and seeps, Upper montane coniferous forest/perennial herb/June–Aug/4,805–9,840	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Phacelia mohavensis	Mojave phacelia	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps,	Not expected to occur. The site is outside of the species' known elevation range.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
			Pinyon and juniper woodland; sandy or gravelly/annual herb/Apr–Aug/4,590–8,200	
Phacelia stellaris	Brand's star phacelia	None/None/1B.1	Coastal dunes, Coastal scrub/annual herb/Mar–June/3–1,310	Not expected to occur. Suitable habitat is not present to support this species.
Piperia leptopetala	narrow-petaled rein orchid	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Upper montane coniferous forest/perennial herb/May–July/1,245–7,295	Not expected to occur. Suitable habitat is not present to support this species.
Pseudorontium cyathiferum	Deep Canyon snapdragon	None/None/2B.3	Sonoran desert scrub (rocky)/annual herb/Feb–Apr/0–2,620	Not expected to occur. Suitable habitat is not present to support this species.
Quercus engelmannii	Engelmann oak	None/None/4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland/perennial deciduous tree/Mar–June/164–4,265	Not expected to occur. Suitable habitat is not present to support this species. In addition, no trees or saplings were observed during the biological reconnaissance survey.
Ribes divaricatum var. parishii	Parish's gooseberry	None/None/1A	Riparian woodland/perennial deciduous shrub/Feb–Apr/213–985	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Romneya coulteri	Coulter's matilija poppy	None/None/4.2	Chaparral, Coastal scrub; Often in burns/perennial rhizomatous herb/Mar–July(Aug)/66–3,935	Not expected to occur. Suitable habitat is not present to support this species.
Rupertia rigida	Parish's rupertia	None/None/4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Pebble (Pavement) plain, Valley and foothill grassland/perennial herb/June–Aug/2,295–8,200	Not expected to occur. The site is outside of the species' known elevation range.
Schoenus nigricans	black bog-rush	None/None/2B.2	Marshes and swamps (often alkaline)/perennial herb/Aug–Sep/492–6,560	Not expected to occur. Suitable marsh and swamp habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2005 and is located approximately 5.9 miles northwest of the site (CDFW 2021).
Senecio aphanactis	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/49–2,620	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2002 and is located approximately 5.8 miles southwest of the site (CDFW 2021).

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Senecio astephanus	San Gabriel ragwort	None/None/4.3	Coastal bluff scrub, Chaparral; rocky slopes/perennial herb/May–July/1,310–4,920	Not expected to occur. The site is outside of the species' known elevation range.
Sidalcea hickmanii ssp. parishii	Parish's checkerbloom	None/SR/1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest/perennial herb/(May)June–Aug/3,280–8,195	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Sidalcea malviflora ssp. dolosa	Bear Valley checkerbloom	None/None/1B.2	Lower montane coniferous forest (meadows and seeps), Meadows and seeps, Riparian woodland, Upper montane coniferous forest (meadows and seeps)/perennial herb/May–Aug/4,900–8,805	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Sidalcea neomexicana	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; alkaline, mesic/perennial herb/Mar–June/49–5,015	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1906 and is located approximately 2.8 miles north of the site (CDFW 2021). A more recent occurrence from 2011 is located approximately 7.2 miles southeast of the site.
Sidalcea pedata	bird-foot checkerbloom	FE/SE/1B.1	Meadows and seeps (mesic), Pebble (Pavement) plain/perennial herb/May–Aug/5,245–8,200	Not expected to occur. The site is outside of the species' known elevation range.
Sidotheca caryophylloides	chickweed oxytheca	None/None/4.3	Lower montane coniferous forest (sandy)/annual herb/July–Sep(Oct)/3,650–8,530	Not expected to occur. The site is outside of the species' known elevation range.
Sphenopholis obtusata	prairie wedge grass	None/None/2B.2	Cismontane woodland, Meadows and seeps; mesic/perennial herb/Apr–July/984–6,560	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 1917 and is located approximately 3.7 miles southwest of the site (CDFW 2021).
Streptanthus bernardinus	Laguna Mountains jewelflower	None/None/4.3	Chaparral, Lower montane coniferous forest/perennial herb/May–Aug/2,195–8,200	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Streptanthus campestris	southern jewelflower	None/None/1B.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; rocky/perennial herb/(Apr)May–July/2,950–7,545	Not expected to occur. The site is outside of the species' known elevation range.

Scientific Name	Common Name	Federal/State/CRPR	Habitat Associations	Potential to Occur in the Project Area
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland (vernally mesic); near ditches, streams, springs/perennial rhizomatous herb/July–Nov(Dec)/7–6,690	Not expected to occur. Suitable habitat and water resources are not present to support this species. The nearest CNDDB occurrence was reported in 1917 and is located approximately 4.1 miles west of the site (CDFW 2021).
Thelypteris puberula var. sonorensis	Sonoran maiden fern	None/None/2B.2	Meadows and seeps (seeps and streams)/perennial rhizomatous herb/Jan–Sep/164–2,000	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence was reported in 2009 and is located approximately 4.2 miles north of the site (CDFW 2021).
Trichocoronis wrightii var. wrightii	Wright's trichocoronis	None/None/2B.1	Meadows and seeps, Marshes and swamps, Riparian forest, Vernal pools; alkaline/annual herb/May–Sep/16–1,425	Not expected to occur. Suitable habitat is not present to support this species. The nearest CNDDB occurrence is from 1937 and is located approximately 16 miles southeast of the site (CDFW 2021).
Yucca brevifolia	western Joshua tree	None/SC/None	Great Basin grassland, Great Basin scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub, Valley and foothill grassland/perennial leaf succulent/Apr–May/1,310–6,560	Not expected to occur. The site is outside of the species' known elevation range.

Plant Species

Angiosperms (Dicots)

AMARANTHACEAE – AMARANTH FAMILY

Amaranthus sp.

ASTERACEAE – SUNFLOWER FAMILY

Ambrosia acanthicarpa – flatspine bur ragweed

Heterotheca grandiflora – telegraph weed

* *Sonchus asper* – spiny sowthistle
* *Verbesina encelioides* – golden crownbeard

BRASSICACEAE – MUSTARD FAMILY

* *Hirschfeldia incana* – short-pod mustard

CHENOPODIACEAE – GOOSEFOOT FAMILY

* *Chenopodium album* - lambsquarters
* *Salsola tragus* – prickly Russian thistle

EUPHORBIACEAE – SPURGE FAMILY

* *Euphorbia maculata* – spotted sandmat
* *Ricinus communis* – castorbean

GERANIACEAE – GERANIUM FAMILY

* *Erodium cicutarium* – redstem stork's bill

MALVACEAE – MALLOW FAMILY

* *Malva parviflora* – cheeseweed mallow

SIMAROUBACEAE – QUASSIA OR SIMAROUBA FAMILY

* *Ailanthus altissima* – tree of heaven

SOLANACEAE – NIGHTSHADE FAMILY

* *Datura stramonium* - jimsonweed

ZYGOPHYLLACEAE – CALTROP FAMILY

* *Tribulus terrestris* – puncturevine

Gymnosperms and Gnetophytes

CUPRESSACEAE – CYPRESS FAMILY

* *Cupressus sempervirens* – Italian cypress

Angiosperms (Monocots)

ARECACEAE – PALM FAMILY

* *Phoenix dactylifera* – date palm

POACEAE – GRASS FAMILY

* *Avena barbata* – slender oat
* *Bromus rubens* – red brome

Wildlife Species – Vertebrates

Reptiles

IGUANIDAE – IGUANID LIZARDS

Sceloporus occidentalis – western fence lizard

Birds

CORVIDAE – JAYS AND CROWS

Corvus brachyrhynchos – American crow

FRINGILLIDAE – FINCHES

Carpodacus mexicanus – house finch

* signifies introduced (non-native) species

Photo 1. From the southwest corner of the project site, facing east. Representative of the crumbling asphalt covering most of the project site. Advertisement sign that could be used by nesting birds is also shown.

Photo 2. From the southwest corner of the project site, facing north. One of the few areas of exposed soil on the project site. The one small structure on the site is also shown.

Photo 3. From the northwest corner of the project site, facing east. Representative of the crumbling asphalt covering the majority of the project site.

Photo 4. From the center of the center of the northern edge of the project site, facing west. Representative of the crumbling asphalt covering the majority of the project site. The only structure on the project site is also shown.

Photo 5. From the northwest corner of the project site, facing south. Representative of the ruderal vegetation found along the edges of the project site. Planes from the San Bernardino Airport are shown in the distance.

Photo 6. From the center of the northern edge of the project site, facing east. Representative of the crumbling asphalt covering the majority of the site. Ornamental vegetation on the adjacent residential property is also shown.

Photo 7. From the southeastern corner of the project site, facing north. Representative of the ornamental vegetation found on the adjacent residential property.

Photo 8. From the southeastern corner of the project site, facing west. Representative of the crumbling asphalt found across the majority of the project site.

Photo 9. From the southern edge of the study area, facing north. Representative of the disturbed habitat in off-site areas found immediately adjacent to the project site.

Photo 10. From the southeastern corner of the project site, facing west. Representative of the exposed soil adjacent to the project site fence, within the project site boundaries.

Appendix C

Archaeological Resources Assessment

DUDEK
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T 626.204.9800 F 626.204.9834

April 22, 2022 13893

Kevin Rice
Patriot Partners
12126 West Sunset Boulevard
Los Angeles, California 90094

Subject: Draft Archaeological Resources Assessment for the 3rd Street and Central Avenue Warehouse Project, City of Highland, San Bernardino County, California

Dear Mr. Kevin Rice:

This letter documents the archaeological resources assessment conducted by Dudek for the 3rd Street and Central Avenue Warehouse Project (Project), located within the City of Highland, San Bernardino County, California. The present study documents the results of a California Historical Resources Information System (CHRIS) records search conducted at the South Central Coastal Information Center (SCCIC), an archaeological pedestrian survey, an analysis of the archaeological sensitivity of the proposed Project site and the potential for archaeological resources to be present, as well as management recommendations. The City of Highland (City) is the lead agency responsible for compliance with California Environmental Quality Act (CEQA).

Project Location

The proposed Project site is located within the southwestern portion of the City of Highland, in western San Bernardino County, California. Specifically, the approximately 3.01-acre, rectangular-shaped, proposed Project site consists of eight (8) parcels (Assessor Parcel Numbers (APNs) 1192-561-11, 1192-561-15, 1192-561-16, 1192-561-17, 1192-561-18, 1192-561-19, 1192-561-20, and 1192-561-21) and is located within public land survey system (PLSS) Section 5 of Township 1 South, Range 3 West on the *Redlands*, California 7.5-minute USGS Quadrangle (Appendix A: Figure 1). The site is bounded on the north by scattered low-density residential and commercial land uses, to the west by vacant land, to the east by business park uses, and to the south by the City boundary and the San Bernardino International Airport (Appendix A: Figure 2).

Project Description

The proposed Project would include the demolition of one existing structure and construction of an approximately 54,330-square-foot (gross area, inclusive of mezzanine/office spaces), one-story warehouse building on an approximately 3.01-acre site (gross area). The warehouse building would include approximately 48,330 square feet of warehouse space and 6,000 square feet of mezzanine/office space and would not contain any cold storage space. The Project proposes improvements along the proposed Project's street frontage, including landscaping, fencing, and street and sidewalk improvements. A variety of trees, shrubs, and groundcovers would be planted within the proposed Project frontage's landscape setback area, within landscape areas surrounding the warehouse

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building, and throughout the proposed Project site. Access to the proposed Project site would be provided by two driveways on 3rd Street. Parking on site is proposed to include 64 passenger parking stalls and 9 high dock door parking stalls.

The proposed Project site is currently served by domestic water, sanitary sewer, electrical, natural gas, and telecommunication service. The proposed Project would connect to the existing facilities located on and in the immediate vicinity of the proposed Project site as follows:

- Connection to the existing 8-inch water line within Central Avenue. Central Avenue also contains an existing 30-inch recycled water line.
- Since the site is not currently served by the City's sanitary sewer system, and the proposed Project would include installation of a septic tank system.
- Connection to an existing Southern California Gas Company 2-inch natural gas line within Central Avenue.
- Connection to existing Southern California Edison electrical lines within Central Avenue as well as connection to existing AT&T facilities within Central Avenue for telecommunication services.
- The proposed Project site is currently served by curbs and gutters that direct storm drainage to the two existing storm drain lines within 3rd Street (24-inch and 36-inch diameter lines). The proposed Project would involve the construction of a new engineered storm drain system to collect and treat on-site and off-site stormwater runoff. On-site stormwater would be collected via a series of roof drains, curbs, and gutters, and catch basins before being conveyed to an on-site underground infiltration basin located in the western portion of the proposed Project site. The infiltration basin would be designed to allow for stormwater flows to infiltrate into the soils. The infiltration basin would be sized to capture and infiltrate flows for a 100-year design storm, consistent with the San Bernardino County Hydraulics Manual. During an extreme storm event greater than a 100-year storm, flows would be discharged through a proposed 8-inch drain pipe that connects to the existing curb inlet on 3rd Street, lead to the existing 3rd Street storm drain system serving as an emergency spillway.

Environmental Setting

The approximately 3.01-acre proposed Project site is located on the northwestern corner of 3rd Street and Central Avenue. Of the eight parcels that comprise the Project site, three parcels are paved and in use as a parking lot with a series of portable buildings (APN 1192-561-11, -15, and -16) the remaining five parcels remain undeveloped (APNs 1192-561-17, -18, -19, -20, and -21). Vegetation on the undeveloped parcels is regularly subject to weed abatement and is largely composed of ruderal (i.e., weedy) species and grasses.

The proposed Project site is relatively flat and generally slopes from southwestern corner at 1155± feet above mean sea level (amsl) to the eastern portion of the site at approximately 1,165± feet amsl. According to the NRCS Web Soil Survey (USDA 2021), soils within the proposed Project site consist of Tujunga gravelly loamy sand at 0 to 9 percent slopes and is characterized as somewhat excessively drained soils that form in alluvium from granitic sources. They are found on alluvial fans and flood plains, including urban areas such as the proposed Project site.

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The proposed Project site is within the Upper Santa Ana River Watershed, which covers approximately 162,538 acres throughout San Bernardino County originating in the San Bernardino Mountains, and traveling 96 miles before reaching the Pacific Ocean at Huntington Beach, California. The proposed Project site is approximately 3 miles south and west of the San Bernardino Mountains and approximately 0.9 miles north of the Santa Ana River. The Santa Ana River travels generally northeast to southwest from the San Bernardino Mountains to the Pacific Ocean.

Regulatory Context

Work for this Project was conducted in compliance with the California Environmental Quality Act (CEQA). The regulatory framework as it pertains to cultural resources under CEQA is detailed below.

Under the provisions of CEQA, including the CEQA Statutes (PRC Sections 21083.2 and 21084.1), the CEQA Guidelines (14 CCR 15064.5), and California Public Resources Code (PRC) Section 5024.1 (14 CCR 4850 et seq.), properties expected to be directly or indirectly affected by a proposed project must be evaluated for California Register of Historical Resources (CRHR) eligibility (PRC Section 5024.1).

The purpose of the CRHR is to maintain listings of the state's historical resources and to indicate which properties are to be protected, to the extent prudent and feasible, from material impairment and substantial adverse change. The term historical resources includes a resource listed in or determined to be eligible for listing in the CRHR; a resource included in a local register of historical resources; and any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant (14 CCR 15064.5[a]). The criteria for listing properties in the CRHR were developed in accordance with previously established criteria developed for listing in the National Register of Historic Places. The California Office of Historic Preservation regards "any physical evidence of human activities over 45 years old" as meriting recordation and evaluation (OHP 1995:2).

State

The California Register of Historical Resources

A cultural resource is considered "historically significant" under CEQA if the resource meets one or more of the criteria for listing on the CRHR. The CRHR was designed to be used by state and local agencies, private groups, and citizens to identify existing cultural resources within the state and to indicate which of those resources should be protected, to the extent prudent and feasible, from substantial adverse change. The following criteria have been established for the CRHR. A resource is considered significant if it:

1. is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. is associated with the lives of persons important in our past;
3. embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. has yielded, or may be likely to yield, information important in prehistory or history.

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In addition to meeting one or more of the above criteria, historical resources eligible for listing in the CRHR must retain enough of their historic character or appearance to be able to convey the reasons for their significance. Such integrity is evaluated in regard to the retention of location, design, setting, materials, workmanship, feeling, and association.

Under CEQA, if an archeological site is not a historical resource but meets the definition of a "unique archeological resource" as defined in PRC Section 21083.2, then it should be treated in accordance with the provisions of that section. A unique archaeological resource is defined as follows:

- An archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:
  - Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information
  - Has a special and particular quality, such as being the oldest of its type or the best available example of its type
  - Is directly associated with a scientifically recognized important prehistoric or historic event or person

Resources that neither meet any of these criteria for listing in the CRHR nor qualify as a "unique archaeological resource" under CEQA (PRC Section 21083.2) are viewed as not significant. Under CEQA, "A non-unique archaeological resource need be given no further consideration, other than the simple recording of its existence by the lead agency if it so elects" (PRC Section 21083.2[h]).

Impacts that adversely alter the significance of a resource listed in or eligible for listing in the CRHR are considered a significant effect on the environment. Impacts to historical resources from a proposed project are thus considered significant if the project (1) physically destroys or damages all or part of a resource; (2) changes the character of the use of the resource or physical feature within the setting of the resource, which contributes to its significance; or (3) introduces visual, atmospheric, or audible elements that diminish the integrity of significant features of the resource.

California Environmental Quality Act

As described further, the following CEQA statutes (PRC Section 21000 et seq.) and CEQA Guidelines (14 CCR 15000 et seq.) are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) defines "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of a historical resource.
- PRC Section 21074(a) defines "tribal cultural resources."
- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- PRC Sections 21083.2(b) and 21083.2(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the

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archaeological context and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; CEQA Guidelines Section 15064.5(b)). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1(q)), it is an "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

(1) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
(2) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
(3) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA (CEQA Guidelines Section 15064.5(b)(2)).

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2(a)–(c)).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC Section 21083.2(g)).

Impacts on nonunique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a nonunique archaeological resource qualifies as a TCR (PRC Sections 21074(c) and 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in PRC Section 5097.98.

California State Assembly Bill 52 (if applicable to proposed Project)

Assembly Bill (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 tribal cultural resources (TCRs) must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. 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 and that is either:

- On or determined to be 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 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 site, 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.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource 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 tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (PRC Section 21080.3.2[a]). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

California Health and Safety Code Section 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains

shall occur until the county coroner has examined the remains (Section 7050.5(b)). PRC Section 5097.98 also outlines the process to be followed in the event that remains are discovered. If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact NAHC within 24 hours (Section 7050.5(c)). NAHC will notify the "most likely descendant." With the permission of the landowner, the most likely descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the most likely descendant by NAHC. The most likely descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains, and items associated with Native Americans.

Local

Historic and Cultural Preservation Ordinance (Chapter 16.32)

The City of Highland Cultural Resource Designation Criteria are listed under the Historic and Cultural Preservation Ordinance, adopted in 2021. This ordinance also defines the establishment and duties of a historic and cultural preservation board consisting of five uncompensated voting members appointed by the city council. The city council and city of Highland has found and determined:

A. That the character and history of the city are reflected in its cultural, historical, and architectural heritage;

B. That these historical and cultural foundations should be preserved as living parts of community life and development to build an understanding of the city's past, so that future generations may have a genuine opportunity to appreciate, enjoy, and understand the rich heritage of the city;

C. That, in the face of ever increasing pressures of modernization and urbanization, city landmarks, neighborhoods, and other areas of historical and cultural interest are threatened with demolition;

D. That pursuant to the provisions of the National Historic Preservation Act of 1966, as amended, the city of Highland joins with private concerns, the state of California, and the United States Congress to develop preservation programs and activities to give maximum encouragement to agencies and individuals undertaking preservation of the city's unique architectural, historical, aesthetic, and cultural heritage.

E. The purpose of this chapter is to promote the public health, safety, and general welfare and:

1. To safeguard the city's unique cultural heritage as embodied and reflected in the city's architectural history and patterns of cultural development;

2. To encourage and facilitate public knowledge, understanding, and appreciation of the city's historic past and unique sense of place;

3. To preserve diverse architectural styles, patterns of development, and design preferences reflecting phases of the city's history and to encourage complementary contemporary design and construction and inspire a more livable urban environment;

4. To enhance property values and to increase economic and financial benefits to the city and its inhabitants through the exploration of creative financial incentives for preservation;

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5. To protect and enhance the city's attraction to tourists and visitors thereby stimulating business and industry;

6. To identify as early as possible and resolve conflicts between the preservation of cultural resources and alternative land uses;

7. To integrate the preservation of cultural resources into public and private land use management and development processes;

8. To stabilize neighborhoods through the preservation of cultural resources and establishment of historic districts and conservation zones;

9. To encourage public participation in identifying and preserving historical and architectural resources thereby increasing community pride in the city's cultural heritage;

10. To acknowledge the historic preservation plan "Old Town" as a tool for preservation of the unique character of the city's Highland Historic District. (Ord. 270 § 6, 2001; Ord. 171 § 8.10, 1994)

16.32.050 Cultural resource designation criteria.

For the purposes of this chapter, an improvement, natural feature, or site may be nominated as a cultural resource by the historic and cultural preservation board pursuant to HMC 16.32.060 if it meets the criteria for listing on the National Register of Historic Places or the following:

A. It exemplifies or reflects special elements of the city's cultural, social, economic, political, aesthetic, engineering, architectural, or natural history;

B. It is identified with persons or events significant in local, state, or national history;

C. It embodies distinctive characteristics of a style, type, period, or method of construction, or is a valuable example of the use of indigenous materials or craftsmanship;

D. It is representative of the work of a notable builder, designer, or architect;

E. It contributes to the significance of an historic area, being a geographically definable area possessing a concentration of historic or scenic properties or thematically related grouping of properties which contribute to each other and are unified aesthetically by plan or physical development;

F. It has a unique location or singular physical characteristics or is a view or vista representing an established and familiar visual feature of a neighborhood, community, or the city of Highland;

G. It embodies elements of architectural design, detail, materials, or craftsmanship that represent a significant structural or architectural achievement or innovation;

H. It is similar to other distinctive properties, sites, areas, or objects based on a historic, cultural, or architectural motif.

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I. It reflects significant geographical patterns, including those associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of park or community planning.

J. It is one of the few remaining examples in the city, region, state, or nation possessing distinguishing characteristics of an architectural or historical type of specimen. (Ord. 171 § 8.50, 1994)

Background Research

SCCIC Records Search

On January 11, 2022, Dudek Staff performed a performed a CHRIS records search at the South Central Coast Information Center (SCCIC), located on the campus of California State University, Fullerton. The records search included the proposed Project site and a 0.5-mile radius. The CHRIS records search results include the SCCIC's collections of mapped prehistoric and historic archaeological resources and historic built-environment resources; Department of Parks and Recreation site records; technical reports; archival resources; and ethnographic references. Additional consulted sources included historical maps of the proposed Project site, the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), the California Historic Property Data File, and the lists of California State Historical Landmarks, California Points of Historical Interest, and the Archaeological Determinations of Eligibility.

Dudek reviewed the available SCCIC records to determine whether the implementation of the proposed Project would have the potential to impact any known and unknown cultural resources. The confidential records search results data is provided in Confidential Appendix B.

Previously Conducted Cultural Resource Studies

Results of the cultural resources records search indicate that 12 cultural resource studies have been conducted within a 0.5-mile of the proposed Project site between 1984 and 2014. Of these studies, one (SB-07959) overlaps approximately 30 percent of the proposed Project site and one (SB-07309) is adjacent and north of the proposed Project site. Table 1, below, details all 12 cultural resources studies followed by a brief summary of the reports that overlap and are adjacent the proposed Project site.

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Table 1. Previous Technical Studies Within a 0.5-Mile of the Proposed Project Site

SCCIC Report No. (SB-)	Authors	Date	Title	Proximity to Proposed Project Site
01456	Schwartz, Steven J.	1984	Cultural Resources Survey: Norton Air Force Base Excess Lands	Outside
02260	Carmichael, David	1991	Documentary Research and Field Reconnaissance Relating to Cultural Resources at Norton Air Force Base, California	Outside
03736	White, Laurie S. and Robert S. White	2000	A Cultural Resource Assessment of a 20 Acre Portion of the Jerry Lewis Community Center Project Site, City of Highland, San Bernardino County, CA. 17PP	Outside
05803	Alexandrowicz, John Stephen	2007	An Historical Resources Identification Investigation of the Light Industrial Shop Building Project, 27262 Meines Street, City of Highland, San Bernardino County, California.	Outside
06436	Tang, Bai "Tom"	2009	Historical/Archaeological Resources Reconnaissance: Fifth and Third Street Road Improvement, Cities of Highland and San Bernardino, San Bernardino County, California.	Outside
06630	Bai "Tom" Tang and Michael Hogan	2010	Identification and Evaluation of Historic Properties City Creek Bridge at third Street Replacement Project City of Highland, San Bernardino County, California	Outside
07144	Billat, Lorna	2012	New Tower Submission Packet, Highland Community Park, LA5625A	Outside
07309	Tang, Bai “Tom’ and Michael Hogan	2011	Historic Property Survey Report: Tiger 5th Street Improvement Project, Cities of Highland and San Bernardino, San Bernardino County, California.	**Adjacent**
07463	Tang, Bai "Tom"	2009	Cultural Resources Records Search, San Bernardino International Airport, City of San Bernardino, California.	Outside
07465	Puckett, Heather	2013	Peacock Candidate B, 7793 Central Ave, Highland CA	Outside
07823	Tang, Bai "Tom"	2014	Due-Diligence Historical/Archaeological Resources Survey: Third Street Between Victoria Avenue and Palm Avenue Between the Cities of Highland and San Bernardino, San Bernardino County, California.	Outside

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Table 1. Previous Technical Studies Within a 0.5-Mile of the Proposed Project Site

SCCIC Report No. (SB-)	Authors	Date	Title	Proximity to Proposed Project Site
07959	Hatheway, Rodger G.	1998	Determination of Eligibility for 50 Buildings in the City of San Bernardino	**Overlaps**

Report SB-07309

Historic Property Survey Report: Tiger 5th Street Improvement Project, Cities of Highland and San Bernardino, San Bernardino County, California (Tang and Hogan 2011), was conducted for the Federal Highway Administration (FHWA) and the California Department of Transportation (Caltrans) for Section 106 compliance and discusses the widening and roadway improvements for segments of 5th Street and Del Rosa Drive in the cities of Highland and San Bernardino. The study included a background research and a literature search, tribal consultation, outreach to local historical societies, and a field survey. The area of potential effect (APE) of this study included an area south of West 5th Street that is located north and outside of the current proposed Project site. The study demonstrates that no archaeological resources were identified within or in the immediate vicinity of the current proposed Project site, no State-owned cultural resources exist within the previous study's project APE and provided a finding of No Historic Properties Affected for the previous study's project.

Report SB-07959

Determination of Eligibility Report for 50 Buildings in the City of San Bernardino (Hatheway 1998), documents the results of a National Register of Historic Places (NRHP) evaluation for 50 buildings in the City of San Bernardino. The study focuses on buildings selected as being the "poorest of the poor" (Hatheway 1998: 1) and encompasses the southern portion of the proposed Project site. The study does not address archaeological resources, but rather focuses on historic built environment resources. None of the 50 buildings assessed qualified for individual listing in the NRHP.

Previously Recorded Cultural Resources

The SCCIC records indicate that 20 cultural resources have been previously recorded within 0.5-mile of the proposed Project site; none of these resources overlap or are adjacent to the proposed Project site. All 20 resources are historic built environment resources. Historic built environment resources or non-archeological resources fall outside of the scope of the present study and therefore, will not be addressed in this report. No historic-period or prehistoric archaeological resources have been previously recorded within the records search area of the proposed Project site. A bibliography of all 20 resources is included in Appendix B of this report.

Review of Historical Topographic Maps and Aerial Photographs

Dudek consulted historical topographic maps and aerial photographs through the Nationwide Environmental Title Research, LLC (NETR) to better understand any natural or human-made changes to the proposed Project site and surrounding properties over time.

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Historical Topographic Maps

Historical Topographic maps reviewed are available for the years 1901, 1904, 1909, 1913, 1924, 1929, 1939, 1946, 1951, 1955, 1958, 1960, 1963, 1964, 1969, 1973, 1979, 1980, 1986, 1988, 1999, 2012, 2015, and 2018 (NETR 2021a).

The 1901 to 1951 and 1958 topographic maps show the proposed Project site as undeveloped. The 1955 topographic maps depict Third Street and Central Avenue serving as the proposed Project site's southern and eastern boundaries, respectively. This 1955 map also depicts a series of three structures within the eastern half of the proposed Project site. The following topographic maps, 1960, 1963, 1964, 1969, 1973, 1979, 1980, 1986, 1988, and 1999, show no significant change to the proposed Project site. The 2012 to 2018 topographic maps do not depict any structures within the proposed Project site. While topographic maps are informative, they do not illustrate the minute changes that can occur to a landscape overtime and at times, are inconsistent with what is depicted year to year. Most often, structures depicted in topographical maps are limited to those with community or social significance (e.g. Firehouses or Hospitals), including additions or changes to roads and/or waterways. Nonetheless, the information gathered contributes to the understanding of the chronological development of a study area.

Historical Aerial Photographs

A review of historical aerial photographs from the following years was conducted as part of the archival research effort: 1938, 1959,1966, 1968, 1980, 1994, 2002, 2005, 2009, 2010, 2012, 2014, 2016, and 2018 (NETR 2021b). Table 2, below, summarizes the results of the aerial photograph review for all available years that include the proposed Project site and surrounding properties.

Table 2. Historical Aerial Photograph Review

Photograph Year	Observations and Findings
1938	The photograph depicts the proposed Project site as undeveloped with minor vegetation and with 3rd Street and Central Avenue as the proposed Project site's southern and eastern boundaries, respectively. The wash area for City Creek is northwest of the proposed Project site.
1959	The photograph depicts a series of three main structures and ancillary buildings within all eight parcels (119-256-117 to 119-256-121) of the proposed Project site. Due to the poor quality of the photo, it is difficult to discern the exact number of ancillary buildings. The western portion of parcel 119-256-111 appears to be cleared of vegetation.
1966	No significant change to the proposed Project site.
1968	The structures visible within the 1959 and 1966 photographs are still present. Some trees are now visible within parcel 119-256-118. The southeastern section of parcel 119-256-111 and the southwestern portion of parcel 119-256-115 appear in use as either parking or storage. The vegetation within the two parcels appears to have been cleared.
1980	The photograph only shows a single small structure east of parcel 119-256-118. There are structures within parcel 119-256-117 and 119-256-118. Parcel 119-256-115 was vacant when the photograph was taken.
1994	The photograph appears to show structures within parcels 119-256-120, 119-256-121, 119-256-118 and along the eastern boundary of parcel 119-256-111. Parcels 119-256-111 and

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Table 2. Historical Aerial Photograph Review

Photograph Year	Observations and Findings
	119-256-115 appear to be in use as either parking or storage, with some minor vegetation along the eastern edges of the parcels.
2002	No significant changes to the proposed Project site observed due to poor photo quality.
2005	The photograph depicts parcels 119-256-111 and 119-256-115 in use as a parking lot. The structures within parcels 119-256-111 and 119-256-115 are consistent with the current Project site conditions. There is a tree visible within parcel 119-256-121.
2009	Parcel 119-256-115 appears paved and there is an increase of vegetation within parcels 119-256-120 and 119-256-121. There are no other significant changes to the proposed Project site.
2010	Most of the trees within parcel 119-256-118 have been removed, however, one tree along the northern boundary remains. There are no other significant changes to the proposed Project site.
2012	The photograph depicts all parcels void of vegetation and the structures within parcels 119-256-118, 119-256-120 and 119-256-121 have been removed.
2014	No significant changes to the proposed Project site.
2016	No significant changes to the proposed Project site.
2018	No significant changes to the proposed Project site.

Geotechnical Report Review

The geotechnical report, *Geotechnical Investigation – Proposed Warehouse Development Northwest Corner of 3rd Street and Central Avenue, Highland, California* (NorCal Engineering 2021), was prepared for Patriot Partners in October 2021 to determine the subsurface geological conditions of the current proposed Project site. The report details the results of nine (9) subsurface backhoe trenching explorations. These subsurface exploratory trenches (T) were placed at accessible locations throughout the proposed Project site, including parcels 119-256-111 (T-2 and T-6), 119-256-115 (T-1, T-4, and T-5), 119-256-116 (T-3), 119-256-118 (T-7), 119-256-119 (T-8), and 119-256-120 (T-9). The subsurface exploratory trenches extended to a maximum depth of 18.5 feet (ft) below ground surface (bgs) and all nine (9) exploratory trenches were completed on September 14, 2021. The soils encountered include: 1) Fills soils: characterized as brown, fine to medium grain silty sand with gravel and the occasional asphalt piece observed from surface to between 1 and 2.5 feet bgs; however, the report does not indicate whether the fill soil is natural or engineered fill; 2) Native soils: characterized as brown, fine to coarse grained slightly silty sand with cobbles and the occasional boulders observed directly under the fill soils to maximum depths explored (between 5 and 18.5 ft bgs). The results of the subsurface trenching testing are summarized in Table 3, below.

Table 3. Subsurface Trenching Results - NorCal Engineering 2021

Trench	0 – 5 feet	5 – 10 feet	10 – 15 feet	15 – 20 feet
T-1	0-1 ft: fill soils 1-5 ft: native soils	Trench terminated at 5 ft		
T-2	0-2 ft: fill soils	2-10 ft: native soils	Trench terminated at 10 ft	
T-3	0-1.5 ft: fill soils	1.5 – 18.5 ft: native soils		Trench terminated at 18.5 ft

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Table 3. Subsurface Trenching Results - NorCal Engineering 2021

Trench	0 – 5 feet	5 – 10 feet	10 – 15 feet	15 – 20 feet
T-4	ft: fill soils 2-5 ft: native soils	Trench terminated at 5 ft		
T-5	0-1.5 ft: fill soils	1.5-10 ft: native soils	Trench terminated at 10 ft	
T-6	0-2.5 ft: fill soils	2.5-10 ft: native soils	Trench terminated at 10 ft	
T-7	0-2 ft: fill soils	2-10 ft: native soils	Trench terminated at 10 ft	
T-8	0-2 ft: fill soils 2-5 ft: native soils	Trench terminated at 5 ft		
T-9	0-1 ft: fill soils	1-10 ft: native soils	Trench terminated at 10 ft	

Native American Coordination

NAHC Sacred Lands File Search

The SLF record is maintained at a PLSS Section level meaning the negative or positive result is respective of a general area covering approximately one-square mile (640 acres) rather than the exact proposed Project site. Therefore, as part of the process of identifying cultural resources within or near the proposed Project, Dudek referenced the results of an SLF search that was previously completed for another project within a 0.5-mile to the northwest of the present Project site (completed April 14, 2021). The SLF search was conducted by Cultural Resources Analyst Andrew Green to determine the presence of any reported Native American cultural resources within the proposed Project site as listed in the NAHC maintained SLF. The NAHC SLF records search results were positive. However, as previously stated, the SLF record is maintained at a PLSS Section level, which indicates a recorded sacred site could be anywhere within this one square mile (640 acre) area. The NAHC identified twelve (12) Native American individuals who would potentially have specific knowledge as to whether or not Native American cultural resources are identified within the study area that could be at-risk. To date, Dudek has not initiated contact with the individuals on the NAHC's contact list, in regard to the current proposed Project site. However, in compliance with Assembly Bill 52, the City has contacted all NAHC-listed traditionally geographically affiliated tribal representatives that have requested project notification and is briefly discussed in the following section. Documentation of the NAHC SLF search results is provided in Appendix C.

Note: Sacred Land Files maintained by the NAHC represent a curation of "ancient places of special religious or social significance to Native Americans and known ancient graves and cemeteries of Native Americans on private and public lands in California" (nahc.gov 2021) provided by Tribal entities and Native American representatives. For various reasons, Tribal entities and Native American representatives do no not always report sacred lands or TCRs to the NAHC; as such, the NAHC's SLF is not necessarily a comprehensive list of known TCRs and searches of the SLF must be considered in concert with other research and not used as a sole source of information regarding the presence of TCRs. Additionally, results of the SLF provided relate to the general regional area within and surrounding the study area and do not necessarily equate to the existence of resources within the specific area occupied by the current proposed Project site.

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Assembly Bill 52

The proposed Project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process, and that the lead agency notify California Native American Tribal representatives that have requested notification who are traditionally or culturally affiliated with the geographic area of the proposed Project site. All records of correspondence related to AB 52 notification and any subsequent consultation are on file with the City. A summary of the consultation record is provided and addressed in the Initial Study/Mitigated Negative Declaration document for the proposed Project.

1938 Kirkman-Harriman Historical Map Review

Dudek cultural resources specialists reviewed sources commonly identified though Tribal consultation, notably the 1938 Kirkman-Harriman Historical Map (Image 1). Based on this map, the proposed Project site is approximately 1.70 miles directly east of the northwest–southeast-trending "Old Salt Road" and just over 1 mile north of a tributary that links with the Santa Ana River to the southwest. The nearest mapped Native American village is nearly 2 miles southeast of the proposed Project site and is unnamed. It should be noted that this map is highly generalized due to scale and age and may be somewhat inaccurate with regards to distance and location of mapped features. Additionally, this map was prepared based on review of historic documents and notes more than 100 years following secularization of the missions (in 1833). Although the map contains no specific primary references, it matches with the details documented by the Portolá expedition (circa 1769–1770). The map is a valuable representation of post-colonization mission history; however, it is limited to a specific period of Native American history and substantiation of the specific location and uses of the represented individual features should be verified by archaeological records and/or other primary documentation. Although the SLF results for the proposed Project were positive, the NAHC did not provide any specificity as to the location of the resources identified nor was any information pertaining to the type of resource provided. Moreover, the results of the SLF provided by the NAHC indicate the presence of resources in the general regional area within and surrounding the proposed Project site and not necessarily within the proposed Project site. No archaeological evidence of the nearest village on the 1938 Kirkman-Harriman map was provided in the digitally available SCCIC records or as the result of a review of other archaeological information for the proposed Project site. This suggests that the village is either likely no nearer than 0.5-miles from the proposed Project site or if existent within the records search radius, subsurface deposits associated with the village have not yet been discovered.

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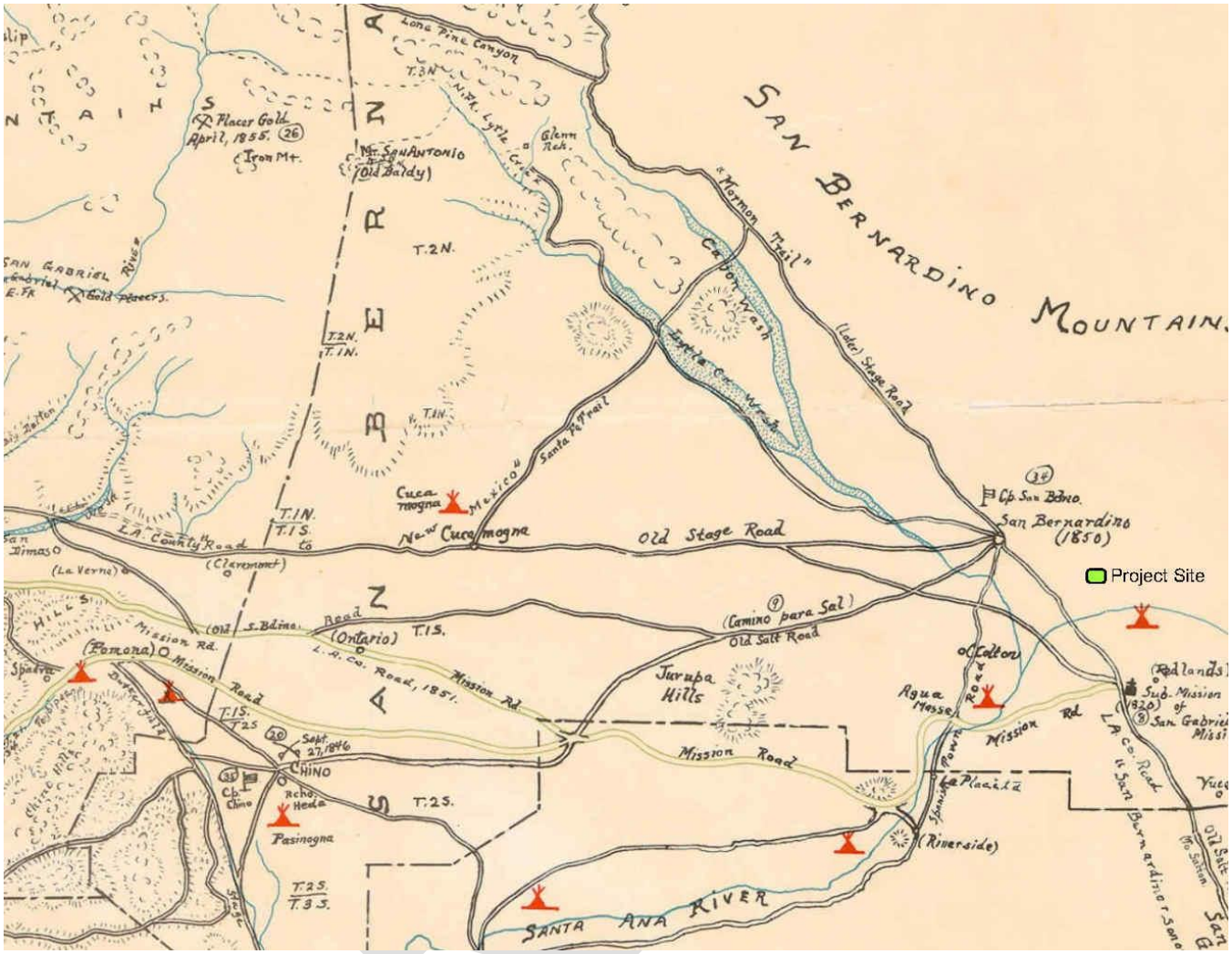

Image 1: 1938 Kirkman-Harriman Historical Map (Proposed Project Site Symbolized in Green)

Field Survey

Methods

The intensive-level pedestrian survey was conducted in parallel transects, spaced no more than 10 meters apart (approximately 33 feet), over the entire proposed Project site, where feasible and safe to do so. The survey was conducted for all eight parcels (APNs 1192-561-11, 1192-561-15, 1192-561-16, 1192-561-17, 1192-561-18, 1192-561-19, 1192-561-20, and 1192-561-21). The ground surface was inspected for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, groundstone tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of structures and/or buildings (e.g., standing exterior walls, post holes, foundations), and historical artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials. No artifacts were collected during the survey.

All fieldwork was documented using field notes and an Apple Generation 7 iPad (iPad) equipped with ESRI Collector and Avenza PDF Maps software with close-scale georeferenced field maps of the proposed Project site, and aerial photographs. Location-specific photographs were taken using the iPad's 8-mega-pixel resolution camera. All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California office. All field practices met the Secretary of Interior's standards and guidelines for a cultural resources inventory.

Results

An intensive-level archaeological survey of the proposed Project site was conducted November 23, 2021 by Dudek archaeologist, Brenda Lee Rogers. Careful attention was given to barren ground, including along the fence line which borders the proposed Project site, where improvements are proposed along the 3rd Street frontage, including landscaping, fencing, and street and sidewalk improvements, as well as areas where the asphalt has degraded. Ground surface visibility within the proposed Project site was variable but poor and surface scrapes were occasionally implemented, when necessary and possible, to enhance detection of archaeological materials that may have been obscured on the surface. Survey results for the eight parcels that make up the proposed Project site are discussed below.

Current Project conditions at the time the survey was conducted include fencing along the perimeter of the proposed Project site. Extant structures and/or structural remnants observed within the site include a dilapidated structure of unknown purpose and a concrete pad, both of which straddle parcels 119-256-111 and 119-256-115. The extant structure is located on parcel 119-256-111 and is situated on a concrete pad that stretches approximately 25 ft to the south of the structure onto parcel 119256115. This concrete pad measures approximately 25 ft by 23 ft. The structure that sits atop the concrete pad measures approximately 40 ft by 20 ft. Modern refuse was observed during the survey, consisting of abandoned furniture, including chairs and a desk, wooden pallets, tires, trash cans, and scraps of wood and metal. The majority of the modern debris is stacked near the extant structure.

The existing surface is a mixture of gravel and degraded asphalt overlying fill soils, which are visible within parcels 119-256-111, 119-256-115, 119-256-116 and 119-256-117. Pockets of exposed soils were observed along parcels 119-256-111 and 119-256-115, behind the extant structure. The visible soils are a pale brown silty sand with gravel. The eastern portion of the proposed Project site, including parcels 119-256-118, 119-256-119, 119-256-120 and 119-256-121, has more recently been covered in 1-foot of asphalt/macadam gravels; however, what appears to be native soils are visible along the property line and consist of a pale brown silty sand with gravels.

As previously mentioned in Geotechnical Report Review section, subsurface exploratory trenching by a backhoe identified fill soils at depths between surface to 2.5 ft bgs at all nine trenching locations within the proposed Project site for parcels 119256111, 119256115, 119256116, 119256118, 119256119, and 119256120; parcels 119256117 and 119256121 were not subject to subsurface exploratory trenching. The presence of the fill soil is an indication that any potential cultural material between surface and 2.5 ft bgs, has been previously displaced from the primary depositional location, buried, or destroyed. Additionally, the presence of fill soils demonstrates that the native soils upon and within which cultural deposits would exist in context was not observed during the survey. No cultural materials were observed within any of the eight parcels; however, due to the presence of fill soils, observation of intact native soils was not possible.

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Sensitivity Analysis

Archaeological Sensitivity

While the NAHC SLF records search results were positive, the results relate to the general regional area and do not necessarily equate to the existence of resources within the specific area occupied by the proposed Project site. It is important to note that the entirety of the proposed Project site has not been subject to a previous archaeological investigation. According to the aerial photographs review, the proposed Project site has been subjected to consistent ground disturbance, shifting from undeveloped land with minor vegetation in the late 1930s and transforming steadily to include the development of buildings by the late 1950s. Between the 1960s and early 2010s, structures have been added or removed and tress have been removed within the proposed Project. By 2012, the structures observed in earlier aerials are no longer present and the proposed Project site was utilized as a storage yard, consistent with the present site conditions.

A review of a geotechnical report prepared for the proposed Project site determined that fills soils were encountered from surface to between 1 and 2.5 ft bgs within all nine (9) exploratory backhoe trenching locations. According to the geotechnical report, grading preparations will include removal of all vegetation and demolition debris and disturbed/fill soils followed by scarification of the native soils underlying the fill soils to a depth of 12 inches (1 foot). Other depths of proposed ground disturbance for the Project are unknown, however, for management and recommendation purposes, it is assumed not to exceed 5 ft bgs for utility trenching, 2 feet within building footprints and landscaped areas and 16 ft bgs within infiltration basin footprint in the western portion of the proposed Project site.

In consideration of all these factors, the potential to encounter intact cultural deposits containing archaeological and tribal cultural resources within soils from the current grade and between 1 and 2.5 feet bgs is unlikely. However, the potential for intact cultural deposits to exist within native soils (below between 1 and 2.5 feet bgs) to the depths of assumed ground disturbance is unknown. In the event that unanticipated archaeological and tribal cultural resources resources are encountered during Project implementation, impacts to these resources could be significant. As such, the following management recommendations are provided to ensure that impacts to unanticipated archaeological resources and human remains would be treated properly resulting in a less than significant impact.

Management Recommendations

The following measures have been developed to ensure that any inadvertent discovery of archaeological resources will be treated appropriately and in accordance with CEQA regulations: preconstruction training, retention of an on-call archaeologist to address inadvertent discoveries, and inadvertent discovery clause implemented and included on all construction plans. Dudek further recommends an additional survey be conducted once fill soils have been removed. If cultural materials are observed during the course of ground disturbing activities below fill soils, then subsurface testing may be required. These measures will ensure the potential Project impacts to archaeological resources and human remains would be less than significant.

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Inadvertent Discovery of Archaeological Resources

All construction personnel and monitors who are not trained archaeologists shall be briefed regarding inadvertent discoveries prior to the start of construction activities. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of archaeological materials that may be identified during construction of the Project and explain the importance of and legal basis for the protection of significant archaeological resources. Each worker shall also learn the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities. These procedures include work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitor.

A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified for the duration of construction activities. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed Project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the survey after the removal of fill soils, that cultural resources are present or may be present that may be impacted during Project construction, monitoring may be warranted. If it is determined that monitoring is warranted, 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 archaeological resources (sites, features, or artifacts) are exposed during construction activities for the proposed Project, all construction work occurring within 100 feet of the find shall immediately stop and a qualified archaeologist is notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work such as preparation of an archaeological treatment plan, testing, data recovery, or monitoring may be warranted.

Within 60 days following completion of ground disturbance, an archaeological monitoring report shall be prepared 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 SCCIC.

Inadvertent Discovery of Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the county coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the county coroner has determined the appropriate treatment and disposition of the human remains. If the county coroner determines that the remains are, or are believed to be, Native American, he or she shall follow all required protocols according to California Public Resources Code, Section 5097.98.

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Should you have any questions relating to this report and its findings, please do not hesitate to contact us directly at lkry@dudek.com or Heather McDaniel McDevitt at hmcdevitt@dudek.com.

Sincerely,

Linda Kry, B.A., RA
Archaeologist

Heather McDaniel McDevitt, M.A., RPA
Archaeologist

Att.: *Appendix A: Figures*
Appendix B. (Confidential) SCCIC Records Search Results
Appendix *C. NAHC SLF Search Results*

cc: *Jennifer De Alba, Kira Archipov, Brenda Lee Rogers, Dudek*

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Appendix A
Figures

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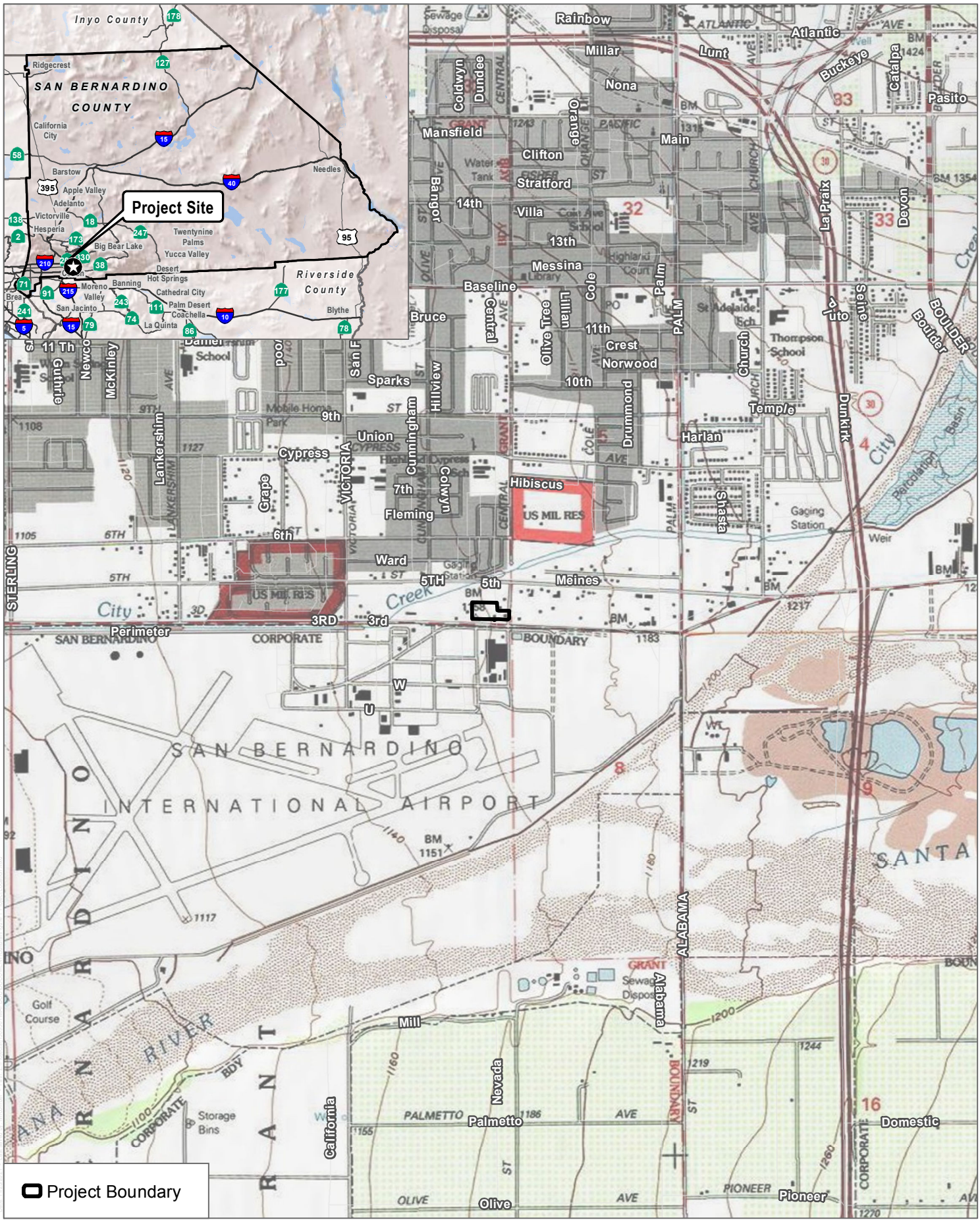


SOURCE: USGS 7.5-Minute Series Redlands Quadrangle

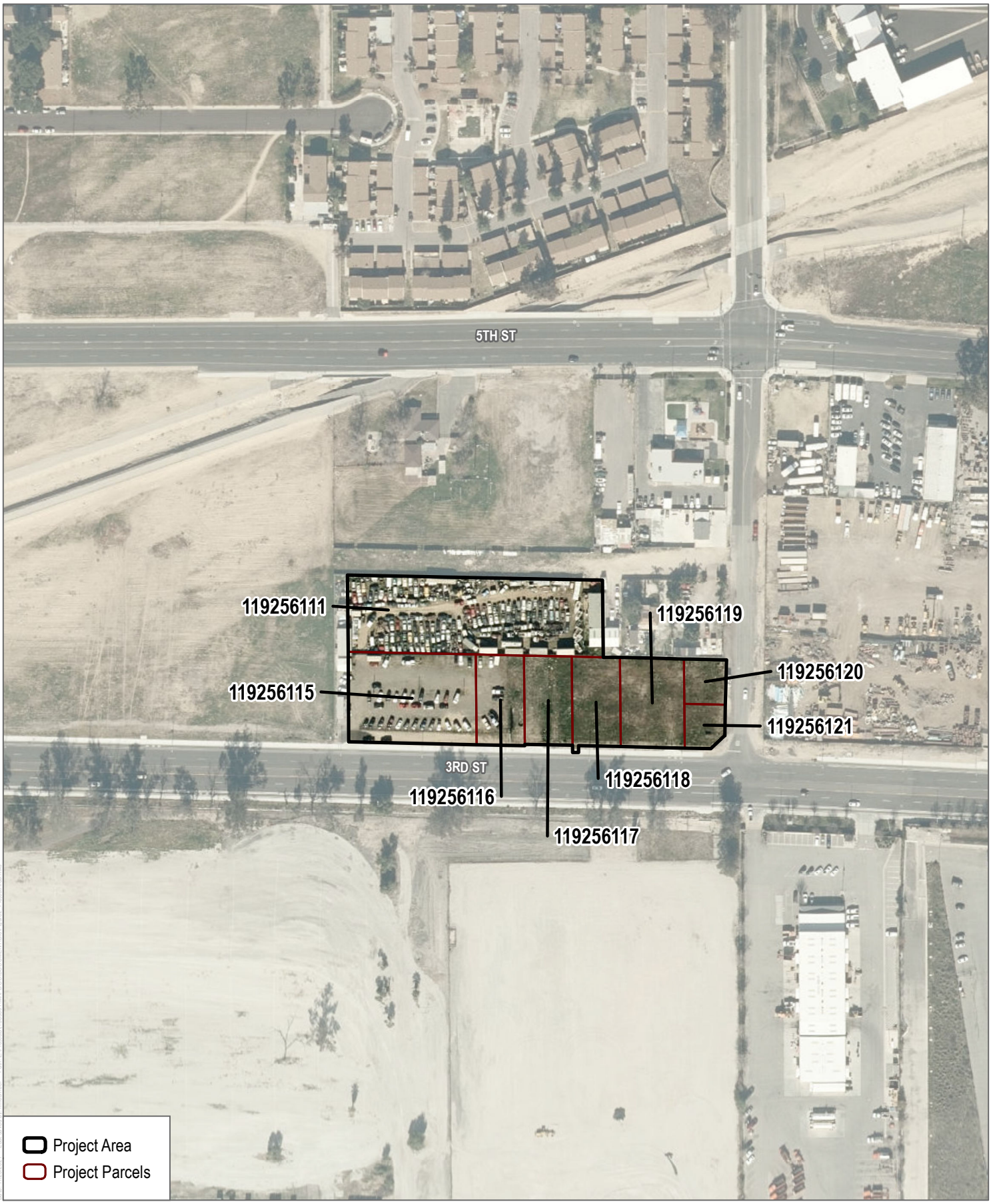
DUDEK

0 1,000 2,000 Feet

FIGURE 1

Regional Location and Project Vicinity

Third and Central Avenue Warehouse Project



SOURCE: Esri World Imagery

DUDEK

0 100 200 Feet
0 25 50 Meters
1:2,400

FIGURE 2

Project Area

Third and Central Avenue Warehouse Project

Appendix B (Confidential)

SCCIC Records Search Results

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Appendix C
NAHC SLF Search Results

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NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

April 14, 2021

Jennifer De Alba
Dudek

Via Email to: jdealba@dudek.com

Re: 13228 6th & Victoria Ave Warehouse Project, San Bernardino County

Dear Ms. De Alba:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were positive. Please contact the San Manuel Band of Mission Indians on the attached list for more information. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Appendix D
Geotechnical Investigation

Geotechnical Engineering Investigation

Proposed Industrial Warehouse Development
Northwest Corner of 3rd Street and Central Avenue
Highland, California

Patriot Partners
12126 W. Sunset Boulevard
Los Angeles, California 90094

Attn: Kevin Rice

Project Number 22775-21
October 6, 2021

NorCal Engineering

NorCal Engineering

Soils and Geotechnical Consultants
10641 Humbolt Street Los Alamitos, CA 90720
(562) 799-9469 Fax (562) 799-9459

October 6, 2021 Project Number 22775-21

Patriot Partners
12126 W. Sunset Boulevard
Los Angeles, California 90094

Attn: Kevin Rice

RE: **Geotechnical Engineering Investigation** - Proposed Industrial Warehouse Development - Located at the Northwest Corner of 3rd Street and Central Avenue, in the City of Highland, California

Dear Mr. Rice:

Pursuant to your request, this firm has performed a Geotechnical Engineering Investigation for the above referenced project in accordance with your approval of our proposal dated August 24, 2021. The purpose of this investigation is to evaluate the geotechnical conditions of the subject site and to provide recommendations for the construction of a proposed industrial warehouse development.

The scope of work included the following: 1) site reconnaissance; 2) subsurface geotechnical exploration and sampling; 3) laboratory testing; 4) soil infiltration testing; 5) engineering analysis of field and laboratory data; 6) preparation of a geotechnical engineering report. It is the opinion of this firm that the proposed development is feasible from a geotechnical standpoint provided that the recommendations presented in this report are followed in the design and construction of the project.

1.0 Project Description

It is proposed to construct an industrial warehouse development consisting of 56,184 square feet building on the 3.01-acre site as shown on the attached Site Plan. The proposed concrete tilt-up building will be supported by a conventional slab-on-grade foundation system with perimeter-spread footings and isolated interior footings. Other improvements will include asphalt and concrete pavement areas, hardscape and landscaping. It is assumed that the proposed grading for the development will include cut and fill procedures on the order of a few feet to achieve finished grade elevations. Final building plans shall be reviewed by this firm prior to submittal for city approval to determine the need for any additional study and revised recommendations pertinent to the proposed development, if necessary.

2.0 Site Description

The 3.01-acre subject property is located at the Northwest Corner of 3rd Street and Central Avenue, in the City of Highland. The generally rectangular shaped parcel is elongated in an east to west direction and is relatively level with topography of the property descending gradually in a north to south direction on the order of a few feet. The site is currently an asphaltic parking lot being used for tractor trailer parking and storage.

3.0 Site Exploration

The investigation consisted of the placement of nine (9) subsurface exploratory trenches by a backhoe to depths ranging between 5 and 18 feet below current ground elevations. The trenches were placed at accessible locations throughout the property. The explorations were visually classified and logged by a field engineer with locations of the subsurface explorations shown on the attached plan.

The exploratory trenches revealed the existing earth materials to consist of fill and natural soil. Detailed descriptions of the subsurface conditions are listed on the boring logs in Appendix A. It should be noted that the transition from one soil type to another as shown on the trench logs is approximate and may in fact be a gradual transition. The soils encountered are described as follows:

Fill: A fill soil classifying as a brown, fine to medium grained, silty SAND with gravel and occasional asphalt pieces was encountered across the site to depths ranging from 1 to 2.5 feet below ground surface. These soils were noted to be medium dense and moist.

Natural: A natural undisturbed soil classifying as a brown, fine to coarse grained slightly silty SAND with cobbles and occasional boulders (up to a maximum of 28 inches in diameter) was encountered beneath the upper fill soils. The native soils as encountered were observed to be medium dense and dry to damp.

The overall engineering characteristics of the earth material were relatively uniform with each excavation. Groundwater was not encountered to the depth of our trenches and caving occurred in the deeper cohesionless soils.

4.0 Laboratory Tests

Relatively undisturbed samples of the subsurface soils were obtained to perform laboratory testing and analysis for direct shear, consolidation tests, and to determine in-place moisture/densities. These relatively undisturbed ring samples were obtained by driving a thin-walled steel sampler lined with one-inch-long brass rings with an inside diameter of 2.42 inches into the undisturbed soils. Bulk bag samples were obtained in the upper soils for expansion index tests and maximum density tests. All test results are included in Appendix B, unless otherwise noted.

4.1 **Field Moisture Content** (ASTM: D 2216) and the dry density of the ring samples were determined in the laboratory. This data is listed on the logs of explorations.

4.2 **Maximum Density tests** (ASTM: D 1557) were performed on typical samples of the upper soils. Results of these tests are shown on Table I.

4.3 **Expansion Index tests** (ASTM: D 4829) were performed on remolded samples of the upper soils to determine expansive characteristics. Results of these tests are provided on Table II.

4.4 **Corrosion tests** consisting of sulfate, pH, resistivity and chloride analysis to determine potential corrosive effects of soils on concrete and underground utilities. Test results are provided on Table III.

4.5 **R-Value test** per California Test Method 301 was performed on a representative sample, which may be anticipated to be near subgrade to determine pavement design. Results are provided within the pavement design section of the report.

4.6 **Direct Shear tests** (ASTM: D 3080) were performed on undisturbed and/or remolded samples of the subsurface soils. The test is performed under saturated conditions at loads of 1,000 lbs./sq.ft., 2,000 lbs./sq.ft., and 3,000 lbs./sq.ft. with results shown on Plate A.

4.7 **Consolidation tests** (ASTM: D 2435) were performed on undisturbed samples to determine the differential and total settlement which may be anticipated based upon the proposed loads. Water was added to the samples at a surcharge of one KSF and the settlement curves are plotted on Plates B to C.

5.0 Seismicity Evaluation

The proposed development lies outside of any Alquist Priolo Special Studies Zone and the potential for damage due to direct fault rupture is considered unlikely. The San Andreas Fault (San Bernardino Segment) is located approximately 5 kilometers from the site and is capable of producing a Magnitude 7.4 earthquake. Ground shaking originating from earthquakes along other active faults in the region is expected to induce lower horizontal accelerations due to smaller anticipated earthquakes and/or greater distances to other faults. The seismic design parameters are provided below and are based on the 2019 California Building Code (CBC) Standard ASCE/SEI 7-16. The data was obtained from the American Society of Civil Engineers (ASCE) website, https://asce7hazardtool.online/. The ASCE 7 Hazards Report is attached in Appendix C.

Seismic Design Acceleration Parameters

Latitude	34.106
Longitude	-117.217
Site Class	D
Risk Category	II
Mapped Spectral Response Acceleration	S_S = 2.32 S_1 = 0.861
Adjusted Maximum Acceleration	S_{MS} = 2.32
Design Spectral Response Acceleration Parameters	S_{DS} = 1.547
Peak Ground Acceleration	PGA_M = 1.051

Use of these values is dependent on requirements of ASCE 7-16, 11-4.8, Exception 2 that requires the value of the seismic response coefficient C_s be determined by Equation 12.8.2 for values of $T \leq 1.5T_s$ and taken as equal to 1.5 times the value computed in accordance with either 12.8-3 for $T_L \geq T \geq 1.5T_s$ or Equation 12.8-4 for $T > T_L$. Computations and verification of these conditions is referred to the structural engineer.

6.0 Liquefaction Evaluation

The site is expected to experience ground shaking and earthquake activity that is typical of the Southern California area. It is during severe shaking that loose, granular soils below the groundwater table can liquefy. Based on review of the *County of San Bernardino County Land Use Plan – General Plan – Geologic Hazard Overlays (2009)*, the site lies outside a zone of "Suspected Liquefaction Susceptibility". Based on review of local groundwater maps, the depth of groundwater is in excess of 100 feet (Carson & Matti 1982). Thus, the design of the proposed construction in conformance with the latest Building Code provisions for earthquake design is expected to provide mitigation of ground shaking hazards that are typical to Southern California.

7.0 Infiltration Characteristics

Infiltration tests within the site were performed to provide preliminary infiltration rates for the purpose of planning and design of an on-site water disposal system. The infiltration tests consisted of the double ring infiltration test per ASTM Method D 3385 with test results given in Appendix D. Based upon the results of our testing, the soils encountered in the planned on-site drainage disposal system area exhibit the following infiltration rates.

Boring/Test No.	Depth	Soil Classification	Field Infiltration Rate
T-1/TH-1	5'	Slightly Silty SAND	214.5 in/hr
T-2/TH-2	10'	Slightly Silty SAND	126 in/hr

Based on the results of our field testing, the subsurface soils encountered in the proposed on-site drainage disposal system shall utilize the design infiltration rates based on the safety factor required by the county standard. All systems must meet the latest city and/or county specifications and the California Regional Water Quality Control Board (CRWQCB) requirements.

It is recommended that foundations shall be setback a minimum distance of 10 feet from the drainage disposal system and the bottom of footing shall be a minimum of 10 feet from the expected zone of saturation. The boundary of the zone of saturation may be assumed to project downward from the top of the permeable portion of the disposal system at an inclination of 1 to 1 or flatter, as determined by the geotechnical engineer.

8.0 Conclusions and Recommendations

Based upon our evaluations, the proposed development is acceptable from a geotechnical engineering standpoint. By following the recommendations and guidelines set forth in our report, the structures will be safe from excessive settlements under the anticipated design loadings and conditions. The proposed development shall meet all requirements of the City Building Ordinance and will not impose any adverse effect on existing adjacent structures.

The following recommendations are based upon soil conditions encountered in our field investigation; these near-surface soil conditions could vary across the site. Variations in the soil conditions may not become evident until the commencement of grading operations for the proposed development and revised recommendations from the soils engineer may be necessary based upon the conditions encountered.

It is recommended that site inspections be performed by a representative of this firm during all grading and construction of the development to verify the findings and recommendations documented in this report. Any unusual conditions which may be encountered in the course of the project development may require the need for additional study and revised recommendations.

8.1 Site Grading Recommendations

Any vegetation and/or demolition debris shall be removed and hauled from proposed grading areas prior to the start of grading operations. Existing vegetation shall not be mixed or disced into the soils. Any removed soils may be reutilized as compacted fill once any deleterious material or oversized materials (in excess of eight inches) is removed. Grading operations shall be performed in accordance with the attached *Specifications for Placement of Compacted Fill.*

8.1.1 Removal and Recompaction Recommendations

All disturbed soils and/or fill (about 1 to 2½ feet below ground surface) shall be removed to competent native material, the exposed surface scarified to a depth of 12 inches, brought to within 2% of optimum moisture content and compacted to a minimum of 90% of the laboratory standard (ASTM: D-1557) prior to placement of any additional compacted fill soils, foundations, slabs-on-grade and pavement. The upper 12 inches of soils beneath building pad and concrete paving shall be compacted to a minimum of 95% of the laboratory standard. Grading shall extend a minimum of five horizontal feet outside the edges of foundations or equidistant to the depth of fill placed, whichever is greater.

The site is underlain by alluvium generally composed of gravels, cobbles and boulders in a silty sand matrix. Oversized materials are anticipated to be encountered during grading operations. The proposed building pad shall be graded with cobbles up to 6-inch minus blended uniformly with soils in the upper one foot beneath pad grade and within planned utility/foundation areas. Rock size up to 12 inches blended uniformly with soils shall be placed below two feet of more below grade. All fill will be required to be placed in suitable lifts, moisture conditioned and compacted to a minimum of 90% of the laboratory standard.

It is possible that isolated areas of undiscovered fill not described in this report are present on site; if found, these areas should be treated as discussed earlier. A diligent search shall also be conducted during grading operations in an effort to uncover any underground structures, irrigation or utility lines. If encountered, these structures and lines shall be either removed or properly abandoned prior to the proposed construction.

Any imported fill material should be preferably soil similar to the upper soils encountered at the subject site. All soils shall be approved by this firm prior to importing at the site and will be subjected to additional laboratory testing to assure concurrence with the recommendations stated in this report.

If placement of slabs-on-grade and pavement is not completed immediately upon completion of grading operations, additional testing and grading of the areas may be necessary prior to continuation of construction operations. Likewise, if adverse weather conditions occur which may damage the subgrade soils, additional assessment by the soils engineer as to the suitability of the supporting soils may be needed.

Care should be taken to provide or maintain adequate lateral support for all adjacent improvements and structures at all times during the grading operations and construction phase. Adequate drainage away from the structures, pavement and slopes should be provided at all times.

8.1.2 Fill Blanket Recommendations

Due to the potential for differential settlement of foundations placed on compacted fill and native materials, it is recommended that all foundations including floor slab areas be underlain by a uniform compacted fill blanket at least two feet in thickness. This fill blanket shall extend a minimum of five horizontal feet outside the edges of foundations or equidistant to the depth of fill placed, whichever is greater.

8.2 Shrinkage and Subsidence

The site is underlain by alluvium generally composed of gravels, cobbles and boulders blended with a sand matrix. It is our experience that a loss of volume from oversize rock will be anticipated. Results of our in-place density tests reveal that the soil shrinkage of the matrix will be on the order of 5 to 10% due to excavation and recompaction, based upon the assumption that the fill is compacted to 92% of the maximum dry density per ASTM standards. Subsidence should be 0.2 feet due to earthwork operations.

The volume change does not include any allowance for vegetation or organic stripping, removal of subsurface improvements, or topographic approximations. Although these values are only approximate, they represent our best estimate of lost yardage, which will likely occur during grading. If more accurate shrinkage and subsidence factors are needed, it is recommended that field testing the actual equipment and grading techniques should be conducted.

8.3 Temporary Excavations

Temporary *unsurcharged* excavations in the existing site materials may be made at vertical inclinations up to 4 feet in height unless cohesionless soils are encountered. In areas where soils with little or no binder are encountered, where adverse geological conditions are exposed, or where excavations are adjacent to existing structures, shoring or flatter excavations may be required. The temporary cut slope gradients given above do not preclude local raveling and sloughing.

All excavations shall be made in accordance with the requirements of the soils engineer, CAL-OSHA and other public agencies having jurisdiction. Care should be taken to provide or maintain adequate lateral support for all adjacent improvements and structures at all times during the grading operations and construction phase.

8.4 Foundation Design

All foundations may be designed utilizing the following allowable bearing capacities for an embedded depth of 18 inches into approved engineered fill with the corresponding widths:

Allowable Bearing Capacity (psf)		
Width (feet)	Continuous Foundation	Isolated Foundation
1.5	2000	2500
2.0	2075	2575
4.0	2375	2875
6.0	2500	3000

The bearing value may be increased by 500 psf for each additional foot of depth in excess of the 18-inch minimum depth, up to a maximum of 4,000 psf. A one-third increase may be used when considering short-term loading and seismic forces.

Any foundations located along property line may utilize an allowable bearing capacity of 1,500 psf and embedded into competent native soils. A modulus of subgrade reaction (k) of 200 pci may be used for design of slabs placed on engineered fill soils supporting sustained concentrated loads. A representative of this firm shall inspect all foundation excavations prior to pouring concrete.

8.5 Settlement Analysis

Resultant pressure curves for the consolidation tests are shown on Plates B to C. Computations utilizing these curves and the recommended allowable soil bearing capacities reveal that the foundations will experience settlements on the order of ¾ inch and differential settlements of less than ¼ inch.

8.6 Lateral Resistance

The following values may be utilized in resisting lateral loads imposed on the structure. Requirements of the California Building Code should be adhered to when the coefficient of friction and passive pressures are combined.

Coefficient of Friction - 0.40

Equivalent Passive Fluid Pressure = 250 lbs./cu.ft.

Maximum Passive Pressure = 2,500 lbs./cu.ft.

The passive pressure recommendations are valid only for approved compacted fill soils or competent native materials.

8.7 Retaining Wall Design Parameters

Active earth pressures against retaining walls will be equal to the pressures developed by the following fluid densities. These values are for **granular backfill material** placed behind the walls at various ground slopes above the walls.

Surface Slope of Retained Materials (Horizontal to Vertical	Equivalent Fluid Density (lb./cu.ft.)
Level	30
5 to 1	35
4 to 1	38
3 to 1	40
2 to 1	45

Any applicable short-term construction surcharges and seismic forces should be added to the above lateral pressure values. An equivalent fluid pressure of 45 pcf may be utilized for the restrained wall condition with a level grade behind the wall.

The seismic-induced lateral soil pressure for walls greater than 6 feet may be computed using a triangular pressure distribution with the maximum value at the top of the wall. The maximum lateral pressure of (20 pcf) H where H is the height of the retained soils above the wall footing should be used in final design of retaining walls. Sliding resistance values and passive fluid pressure values may be increased by 1/3 during short-term wind and seismic loading conditions.

All walls shall be waterproofed as needed and protected from hydrostatic pressure by a reliable permanent subdrain system. The granular backfill to be utilized immediately adjacent to retaining walls shall consist of an approved select granular soil with a sand equivalency greater than 30. This backfill zone of free draining material shall consist of a wedge beginning a minimum of one horizontal foot from the base of the wall extending upward at an inclination of no less than ¾ to 1 (horizontal to vertical).

8.8 Slab Design

All concrete slabs shall be a minimum of six inches in thickness in the proposed warehouse areas and four inches in office and hardscape and placed on approved subgrade soils compacted to a minimum of 95% of the laboratory standard in the upper 12 inches. Additional reinforcement requirements and an increase in thickness of the slabs-on-grade may be necessary based upon soils expansion potential and proposed loading conditions in the structures and should be evaluated further by the project engineers and/or architect.

A vapor retarder (10-mil minimum thickness) should be utilized in areas which would be sensitive to the infiltration of moisture. This retarder shall meet requirements of ASTM E 96, *Water Vapor Transmission of Materials* and ASTM E 1745, *Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.* The vapor retarder shall be installed in accordance with procedures stated in ASTM E 1643, *Standard practice for Installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.*

The moisture retarder may be placed directly upon compacted subgrade soils conditioned to near optimum moisture levels, although one to two inches of sand beneath the membrane is desirable. The subgrade upon which the retarder is placed shall be smooth and free of rocks, gravel or other protrusions which may damage the retarder. Use of sand above the retarder is under the purview of the structural engineer; if sand is used over the retarder, it should be placed in a dry condition.

8.9 Pavement Section Design

The table below provides a preliminary pavement design based upon an R-Value of 74 for the subgrade soils for the proposed pavement areas. Final pavement design may need to be based on R-Value testing of the subgrade soils near the conclusion of site grading to assure that these soils are consistent with those assumed in this preliminary design. *The recommendations are based upon estimated traffic loads. Client should submit any other anticipated traffic loadings to the geotechnical engineer, if necessary, so that pavement sections may be reviewed to determine adequacy to support the proposed loadings.*

Type of Traffic	Traffic Index	Asphalt (in.)	Base Material (in.)
Automobile Parking Stalls	4.0	3.0	3.0
Light Vehicle Circulation Areas	5.5	3.	4.0
Heavy Truck Access Areas	7.0	4.0	8.0

Any concrete slab-on-grade in pavement areas shall be a minimum of six inches in thickness and may be placed on approved subgrade soils.

All pavement areas shall have positive drainage toward an approved outlet from the site. Drain lines behind curbs and/or adjacent to landscape areas should be considered by client and the appropriate design engineers to prevent water from infiltrating beneath pavement. If such infiltration occurs, damage to pavement, curbs and flow lines, especially on sites with expansive soils, may occur during the life of the project.

Any approved base material shall consist of a Class II aggregate or equivalent and should be compacted to a minimum of 95% relative compaction. All pavement materials shall conform to the requirements set forth by the City of Fontana. The base material; and asphaltic concrete should be tested prior to delivery to the site and during placement to determine conformance with the project specifications. A pavement engineer shall designate the specific asphalt mix design to meet the required project specifications.

8.10 **Utility Trench and Excavation Backfill**

Trenches from installation of utility lines and other excavations may be backfilled with on-site soils or approved imported soils compacted to a minimum of 90% relative compaction. All utility lines shall be properly bedded with clean sand having a sand equivalency rating of 30 or more. This bedding material shall be thoroughly water jetted around the pipe structure prior to placement of compacted backfill soils.

8.11 **Corrosion Design Criteria**

Representative samples of the surficial soils, typical of the subgrade soils expected to be encountered within foundation excavations and underground utilities were tested for corrosion potential. The minimum resistivity value obtained for the samples tested is representative of an environment that may be severely corrosive to metals. The soil pH value was considered mildly alkaline and may not have a significant effect on soil corrosivity. Consideration should be given to corrosion protection systems for buried metal such as protective coatings, wrappings or the use of PVC where permitted by local building codes.

According to Table 4.3.1 of ACI 318 Building Code and Commentary, these contents revealed negligible sulfate concentrations. Therefore, a Type II cement according to latest CBC specifications may be utilized for building foundations at this time. It is recommended that additional sulfate tests be performed at the completion of site grading to assure that the as graded conditions are consistent with the recommendations stated in this design. Corrosion test results may be found on the attached Table IV.

8.12 **Expansive Soil**

On-site soils are very low in expansion potential (EI 0-20). When soils have an expansion index (EI) of 20 or more, special attention should be given to the project design and maintenance. The attached *Expansive Soil Guidelines* should be reviewed by the engineers, architects, owner, maintenance personnel and other interested parties and considered during the design of the project and future property maintenance. Expansion test results may be found on the attached Table II.

9.0 Closure

The recommendations and conclusions contained in this report are based upon the soil conditions uncovered in our test excavations. No warranty of the soil condition between our excavations is implied. NorCal Engineering should be notified for possible further recommendations if unexpected to unfavorable conditions are encountered during construction phase. It is the responsibility of the owner to ensure that all information within this report is submitted to the Architect and appropriate Engineers for the project.

A preconstruction conference should be held between the developer, general contractor, grading contractor, city inspector, architect, and soil engineer to clarify any questions relating to the grading operations and subsequent construction. Our representative should be present during the grading operations and construction phase to certify that such recommendations are complied within the field.

This geotechnical investigation has been conducted in a manner consistent with the level of care and skill exercised by members of our profession currently practicing under similar conditions in the Southern California area. No other warranty, expressed or implied is made.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KEITH D. TUCKER
No. 841
Exp. 12/31/2022
GEOTECHNICAL
STATE OF CALIFORNIA

Keith D. Tucker
Project Engineer
R.G.E. 841

Mike Barone
Project Manager

SPECIFICATIONS FOR PLACEMENT OF COMPACTED FILL

Excavation

Any existing low-density soils and/or saturated soils shall be removed to competent natural soil under the inspection of the Geotechnical Engineering Firm. After the exposed surface has been cleansed of debris and/or vegetation, it shall be scarified until it is uniform in consistency, brought to the proper moisture content and compacted to a minimum of 90% relative compaction (in accordance with ASTM: D 1557).

In any area where a transition between fill and native soil or between bedrock and soil are encountered, additional excavation beneath foundations and slabs will be necessary in order to provide uniform support and avoid differential settlement of the structure.

Material for Fill

The on-site soils or approved import soils may be utilized for the compacted fill provided they are free of any deleterious materials and shall not contain any rocks, brick, asphaltic concrete, concrete or other hard materials greater than eight inches in maximum dimensions. Any import soil must be approved by the Geotechnical Engineering firm a minimum of 72 hours prior to importation of site.

Placement of Compacted Fill Soils

The approved fill soils shall be placed in layers not excess of six inches in thickness. Each lift shall be uniform in thickness and thoroughly blended. The fill soils shall be brought to within 2% of the optimum moisture content, unless otherwise specified by the Soils Engineering firm. Each lift shall be compacted to a minimum of 90% relative compaction (in accordance with ASTM: D 1557) and approved prior to the placement of the next layer of soil. Compaction tests shall be obtained at the discretion of the Geotechnical Engineering firm but to a minimum of one test for every 500 cubic yards placed and/or for every 2 feet of compacted fill placed.

The minimum relative compaction shall be obtained in accordance with accepted methods in the construction industry. The final grade of the structural areas shall be in a dense and smooth condition prior to placement of slabs-on-grade or pavement areas. No fill soils shall be placed, spread or compacted during unfavorable weather conditions. When the grading is interrupted by heavy rains, compaction operations shall not be resumed until approved by the Geotechnical Engineering firm.

Grading Observations

The controlling governmental agencies should be notified prior to commencement of any grading operations. This firm recommends that the grading operations be conducted under the observation of a Soils Engineering firm as deemed necessary. A 24-hour notice must be provided to this firm prior to the time of our initial inspection.

Observation shall include the clearing and grubbing operations to assure that all unsuitable materials have been properly removed; approve the exposed subgrade in areas to receive fill and in areas where excavation has resulted in the desired finished grade and designate areas of overexcavation; and perform field compaction tests to determine relative compaction achieved during fill placement. In addition, all foundation excavations shall be observed by the Soils Engineering firm to confirm that appropriate bearing materials are present at the design grades and recommend any modifications to construct footings.

EXPANSIVE SOIL GUIDELINES

The following expansive soil guidelines are provided for your project. The intent of these guidelines is to inform you, the client, of the importance of proper design and maintenance of projects supported on expansive soils. ***You, as the owner or other interested party, should be warned that you have a duty to provide the information contained in the soil report including these guidelines to your design engineers, architects, landscapers and other design parties in order to enable them to provide a design that takes into consideration expansive soils.***

In addition, you should provide the soil report with these guidelines to any property manager, lessee, property purchaser or other interested party that will have or assume the responsibility of maintaining the development in the future.

Expansive soils are fine-grained silts and clays which are subject to swelling and contracting. The amount of this swelling and contracting is subject to the amount of fine-grained clay materials present in the soils and the amount of moisture either introduced or extracted from the soils. Expansive soils are divided into five categories ranging from "very low" to "very high". Expansion indices are assigned to each classification and are included in the laboratory testing section of this report. *If the expansion index of the soils on your site, as stated in this report, is 21 or higher, you have expansive soils.* The classifications of expansive soils are as follows:

Classification of Expansive Soil*

Expansion Index	Potential Expansion
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very High

*From Table 18A-I-B of California Building Code (1988)

When expansive soils are compacted during site grading operations, care is taken to place the materials at or slightly above optimum moisture levels and perform proper compaction operations. Any subsequent excessive wetting and/or drying of expansive soils will cause the soil materials to expand and/or contract. These actions are likely to cause distress of foundations, structures, slabs-on-grade, sidewalks and pavement over the life of the structure. ***It is therefore imperative that even after construction of improvements, the moisture contents are maintained at relatively constant levels, allowing neither excessive wetting or drying of soils.***

Evidence of excessive wetting of expansive soils may be seen in concrete slabs, both interior and exterior. Slabs may lift at construction joints producing a trip hazard or may crack from the pressure of soil expansion. Wet clays in foundation areas may result in lifting of the structure causing difficulty in the opening and closing of doors and windows, as well as cracking in exterior and interior wall surfaces. In extreme wetting of soils to depth, settlement of the structure may eventually result. Excessive wetting of soils in landscape areas adjacent to concrete or asphaltic pavement areas may also result in expansion of soils beneath pavement and resultant distress to the pavement surface.

Excessive drying of expansive soils is initially evidenced by cracking in the surface of the soils due to contraction. Settlement of structures and on-grade slabs may also eventually result along with problems in the operation of doors and windows.

Projects located in areas of expansive clay soils will be subject to more movement and "hairline" cracking of walls and slabs than similar projects situated on non-expansive sandy soils. There are, however, measures that developers and property owners may take to reduce the amount of movement over the life the development. The following guidelines are provided to assist you in both design and maintenance of projects on expansive soils:

- Drainage away from structures and pavement is essential to prevent excessive wetting of expansive soils. Grades should be designed to the latest building code and maintained to allow flow of irrigation and rain water to approved drainage devices or to the street. Any "ponding" of water adjacent to buildings, slabs and pavement after rains is evidence of poor drainage; the installation of drainage devices or regrading of the area may be required to assure proper drainage. Installation of rain gutters is also recommended to control the introduction of moisture next to buildings. Gutters should discharge into a drainage device or onto pavement which drains to roadways.

- Irrigation should be strictly controlled around building foundations, slabs and pavement and may need to be adjusted depending upon season. This control is essential to maintain a relatively uniform moisture content in the expansive soils and to prevent swelling and contracting. Over-watering adjacent to improvements may result in damage to those improvements. NorCal Engineering makes no specific recommendations regarding landscape irrigation schedules.

- Planting schemes for landscaping around structures and pavement should be analyzed carefully. Plants (including sod) requiring high amounts of water may result in excessive wetting of soils. Trees and large shrubs may actually extract moisture from the expansive soils, thus causing contraction of the fine-grained soils.

- Thickened edges on exterior slabs will assist in keeping excessive moisture from entering directly beneath the concrete. A six-inch thick or greater deepened edge on slabs may be considered. Underlying interior and exterior slabs with 6 to 12 inches or more of non-expansive soils and providing presaturation of the underlying clayey soils as recommended in the soil report will improve the overall performance of on-grade slabs.

- Increase the amount of steel reinforcing in concrete slabs, foundations and other structures to resist the forces of expansive soils. The precise amount of reinforcing should be determined by the appropriate design engineers and/or architects.

- Recommendations of the soil report should always be followed in the development of the project. Any recommendations regarding presaturation of the upper subgrade soils in slab areas should be performed in the field and verified by the Soil Engineer.

N

1" = 50'

NorCal Engineering SOILS AND GEOTECHNICAL CONSULTANTS PATRIOT PARTNERS PROJECT 22775-21 DATE OCTOBER 2021	SITE PLAN

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

PATRIOT PARTNERS

PROJECT: 22775-21 | DATE: OCTOBER 2021

VICINITY MAP

List of Appendices
(in order of appearance)

Appendix A – Log of Excavations

Log of Trenches T-1 to T-9

Appendix B – Laboratory Tests

Table I – Maximum Dry Density
Table II – Expansion
Table III – Corrosion
Plate A– Direct Shear
Plates B to C - Consolidation

Appendix C – ASCE Seismic Hazards Report

Appendix D – Soil Infiltration Data

Appendix A
Log of Excavations

MAJOR DIVISION			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL, SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANDS WITH FINE (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

UNIFIED SOIL CLASSIFICATION SYSTEM

NorCal Engineering

KEY:

- ■ Indicates 2.5-inch Inside Diameter. Ring Sample.
- ☒ Indicates 2-inch OD Split Spoon Sample (SPT).
- ⧅ Indicates Shelby Tube Sample.
- ◫ Indicates No Recovery.
- ◧ Indicates SPT with 140# Hammer 30 in. Drop.
- ⊠ Indicates Bulk Sample.
- ◩ Indicates Small Bag Sample.
- ◨ Indicates Non-Standard
- ☒ Indicates Core Run.

COMPONENT PROPORTIONS

DESCRIPTIVE TERMS	RANGE OF PROPORTION
Trace	1 - 5%
Few	5 - 10%
Little	10 - 20%
Some	20 - 35%
And	35 - 50%

COMPONENT DEFINITIONS

COMPONENT	SIZE RANGE
Boulders	Larger than 12 in
Cobbles	3 in to 12 in
Gravel	3 in to No 4 (4.5mm)
Coarse gravel	3 in to 3/4 in
Fine gravel	3/4 in to No 4 (4.5mm)
Sand	No. 4 (4.5mm) to No. 200 (0.074mm)
Coarse sand	No. 4 (4.5 mm) to No. 10 (2.0 mm)
Medium sand	No. 10 (2.0 mm) to No. 40 (0.42 mm)
Fine sand	No. 40 (0.42 mm) to No. 200 (0.074 mm)
Silt and Clay	Smaller than No. 200 (0.074 mm)

MOISTURE CONTENT

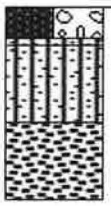
DRY	Absence of moisture, dusty, dry to the touch.
DAMP	Some perceptible moisture; below optimum
MOIST	No visible water; near optimum moisture content
WET	Visible free water, usually soil is below water table.

RELATIVE DENSITY OR CONSISTENCY VERSUS SPT N -VALUE

COHESIONLESS SOILS		COHESIVE SOILS		
Density	N (blows/ft)	Consistency	N (blows/ft)	Approximate Undrained Shear Strength (psf)
Very Loose	0 to 4	Very Soft	0 to 2	< 250
Loose	4 to 10	Soft	2 to 4	250 - 500
Medium Dense	10 to 30	Medium Stiff	4 to 8	500 - 1000
Dense	30 to 50	Stiff	8 to 15	1000 - 2000
Very Dense	over 50	Very Stiff	15 to 30	2000 - 4000
		Hard	over 30	> 4000

Patriot Development Partners 22775-21	Log of Trench T-1

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		4" Asphaltic Concrete over 4" Base					
		FILL Silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp					
5			☑		0.9		
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 5' Boulders up to 15 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/6/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-2

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		4" Asphaltic Concrete over 2" Base					
		FILL Silty (fine to medium grained) SAND with gravel, asphaltic concrete Brown, medium dense, moist					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasion al rock Brown, medium dense, damp					
5		GWT not encountered					
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 10' Boulders up to 18 inches in diameter	☒		1.0		
15							
20							
25							
30							
35							

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-3

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		4" Asphaltic Concrete over 4" Base					
		FILL Silty (fine to medium grained) SAND with gravel, asphaltic concrete Brown, medium dense, moist			4.3	106.2	
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasion al rock Brown, medium dense, damp			2.7	106.8	
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10					2.8	112.1	
15					2.6		
		Boring completed at depth of 18.5' Boulders up to 22 inches in diameter			2.7		
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-4

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		9" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with occasional gravel Brown, medium dense, moist	■		6.1	98.7	
5		NATURAL Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
		Boring completed at depth of 5' Boulders up to 15 inches in diameter					
10							
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-5

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		4" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with occasional gravel Brown, medium dense, moist					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp	■		2.1	112.4	
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 10' Boulders up to 17 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-6

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		3" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with occasional asphaltic concrete, gravel Brown, medium dense, moist	■		5.2	108.0	
5		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp	■		2.5	115.7	
10		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
		Boring completed at depth of 10' Boulders up to 20 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

Patriot Development Partners 22775-21	Log of Trench T-7

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		9" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with gravel, occasional asphaltic concrete Brown, medium dense, moist					
5		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp	■		3.0	108.8	
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size	■		2.4	108.4	
10		Boring completed at depth of 10' Boulders up to 15 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-8

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		3" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, moist	■		5.0	101.4	
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp					
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 5' Boulders up to 14 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-9

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		2" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, moist					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasion al rock Brown, medium dense, damp					
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 10' Boulders up to 28 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

NorCal Engineering

Appendix B
Laboratory Tests

TABLE I
MAXIMUM DENSITY TESTS

Sample	Classification	Optimum Moisture (%)	Maximum Dry Density (lbs/cu.ft)
T-3 @ 2'	Slightly Silty SAND	9.5	125.0

TABLE II
EXPANSION TESTS

Sample	Classification	Expansion Index
T-3 @ 2'	Slightly Silty SAND	0

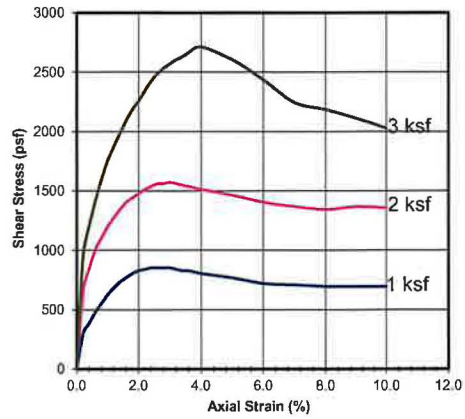
TABLE III
CORROSION TESTS

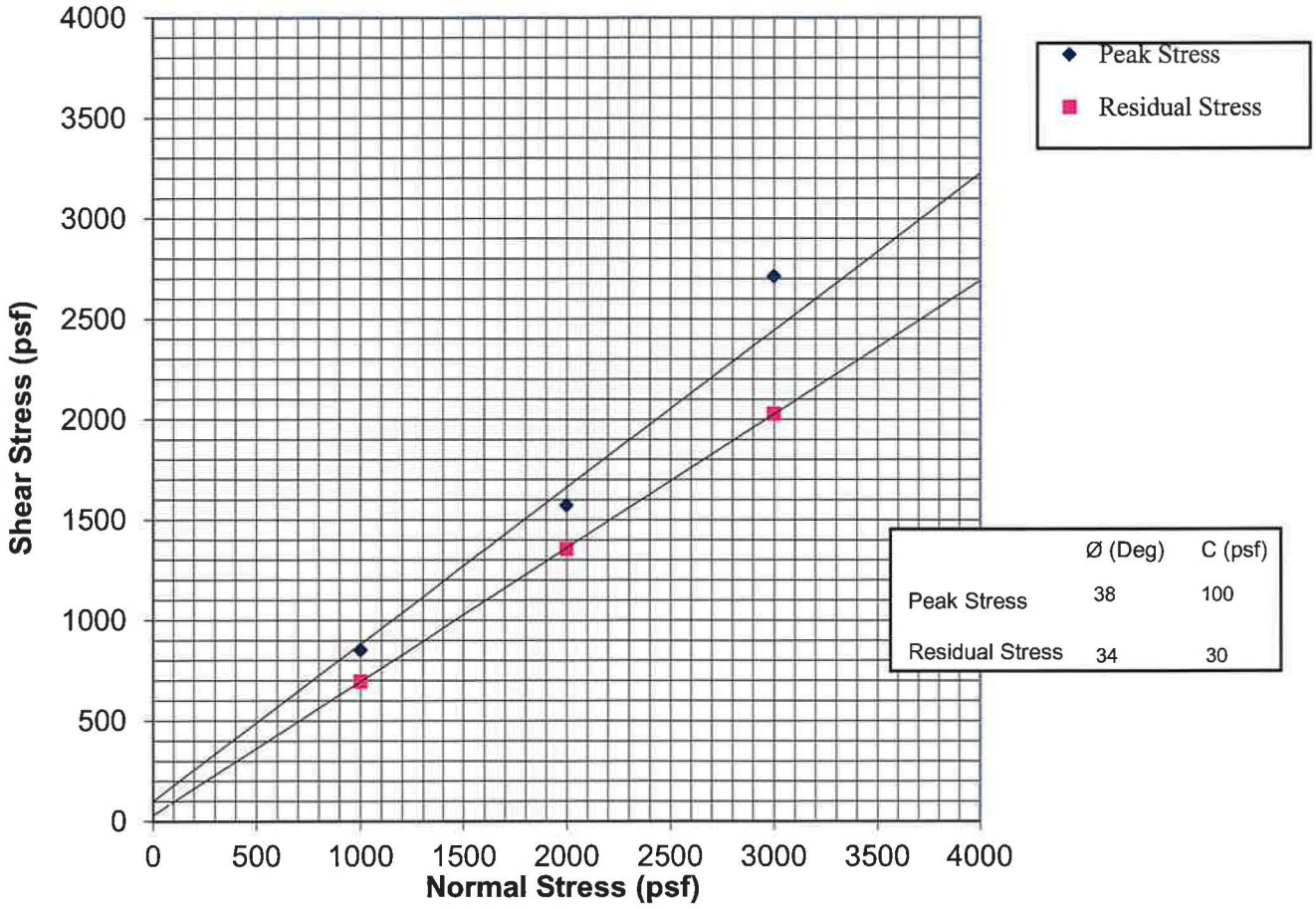
Sample	pH	Electrical Resistivity	Sulfate (%)	Chloride (ppm)
T-3 @ 2'	7.6	9,941	0.0002	177

% by weight
ppm – mg/kg

Sample No.	T3@2'
Sample Type:	Undisturbed-Saturated
Soil Description:	Fine-Very Coarse Grained Sand w/ Gravel & Trace Sil

		1	2	3
Normal Stress	(psf)	1000	2000	3000
Peak Stress	(psf)	852	1572	2712
Displacement	(in.)	0.060	0.075	0.100
Residual Stress	(psf)	696	1356	2028
Displacement	(in.)	0.250	0.250	0.250
Initial Dry Density	(pcf)	106.2	106.2	106.2
Initial Water Content	(%)	4.3	4.3	4.3
Strain Rate	(in./min.)	0.020	0.020	0.020





	Ø (Deg)	C (psf)
Peak Stress	38	100
Residual Stress	34	30

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SOILS AND GEOTECHNICAL CONSULTANTS

Patriot Partners

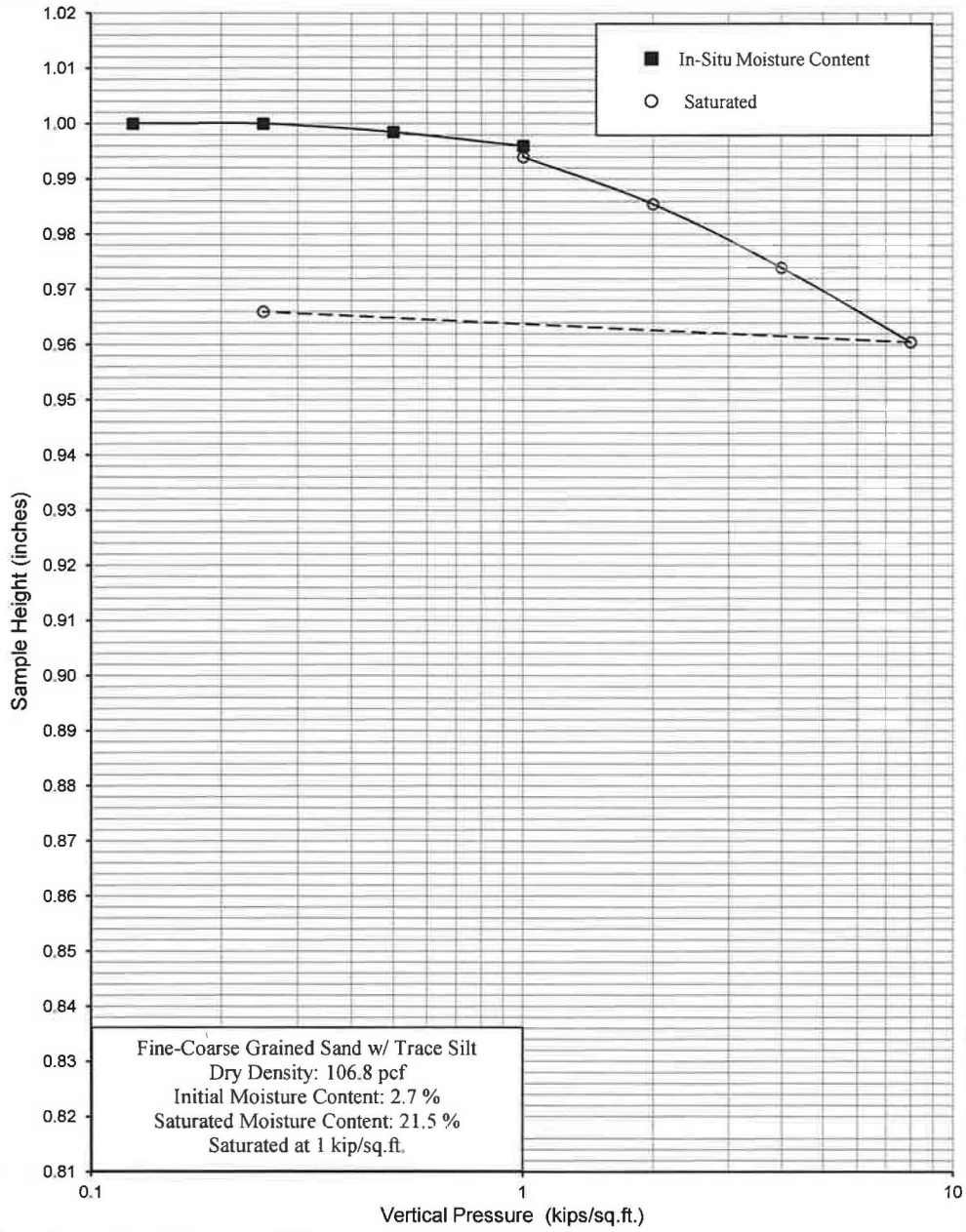
PROJECT NUMBER: 22775-21 DATE: 9/29/2021

DIRECT SHEAR TEST
ASTM D3080
Plate A

Vertical Pressure (kips/sq.ft.)	Sample Height (inches)	Consolidation (percent)	
0.125	1.0000	0.0	
0.25	1.0000	0.0	
0.5	0.9985	0.2	
1	0.9960	0.4	
1	0.9940	0.6	
2	0.9855	1.5	
4	0.9740	2.6	
8	0.9605	4.0	Saturated
0.25	0.9660	3.4	

Sample No.	T3	Depth	5'	Date	9/29/2021

Date Tested: 9/28/2021
Sample: T3
Depth: 5'



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SOILS AND GEOTECHNICAL CONSULTANTS

Patriot Partners

PROJECT NUMBER: 22775-21 DATE: 9/29/2021

CONSOLIDATION TEST

ASTM D2435

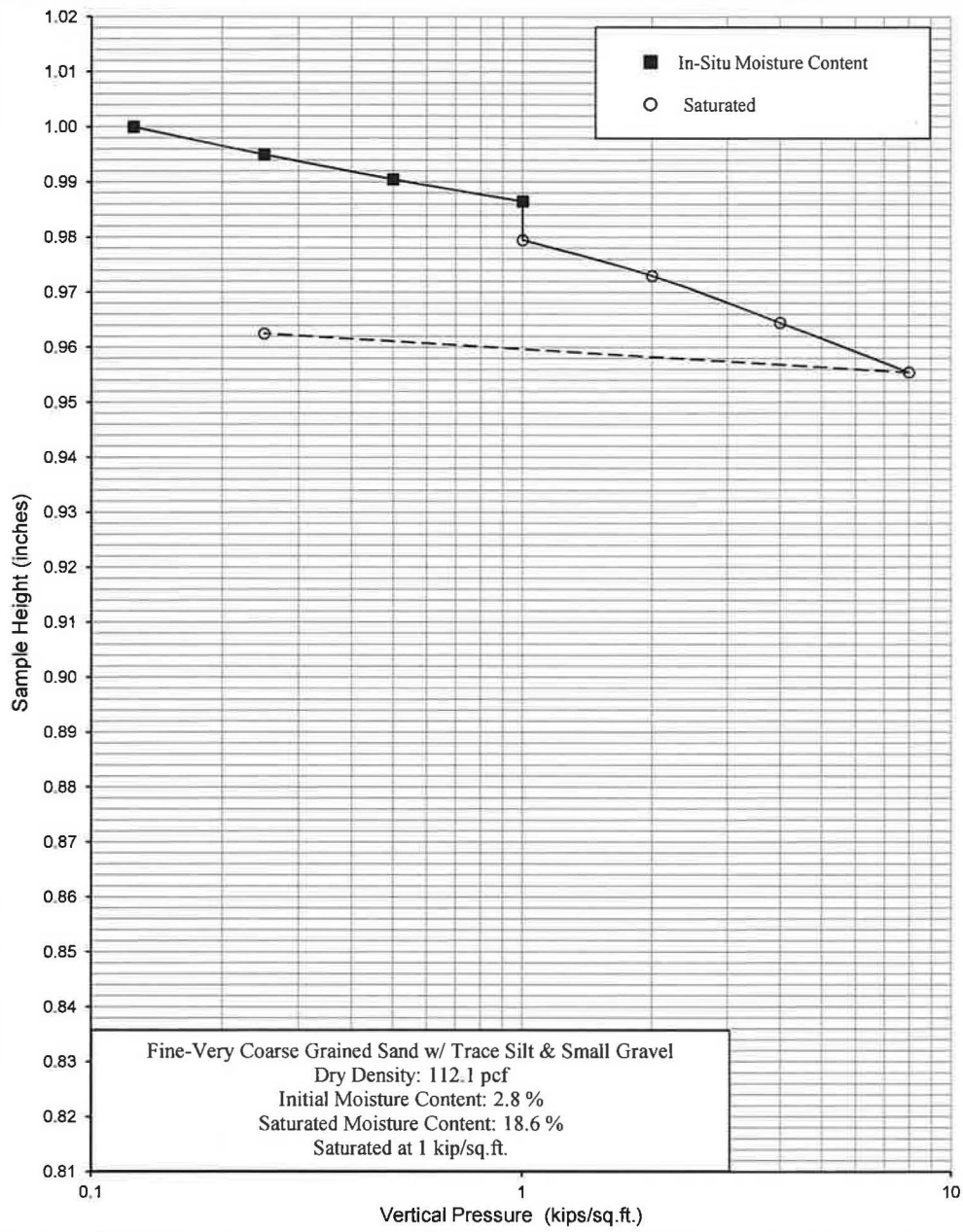
Plate B

Vertical Pressure (kips/sq.ft.)	Sample Height (inches)	Consolidation (percent)
0.125	1.0000	0.0
0.25	0.9950	0.5
0.5	0.9905	1.0
1	0.9865	1.4
1	0.9795	2.1
2	0.9730	2.7
4	0.9645	3.6
8	0.9555	4.5
0.25	0.9625	3.8

Saturated

Sample No.	T3	Depth	10'	Date	9/29/2021

Date Tested: 9/28/2021
Sample: T3
Depth: 10'



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SOILS AND GEOTECHNICAL CONSULTANTS

Patriot Partners

PROJECT NUMBER: 22775-21 DATE: 9/29/2021

CONSOLIDATION TEST

ASTM D2435

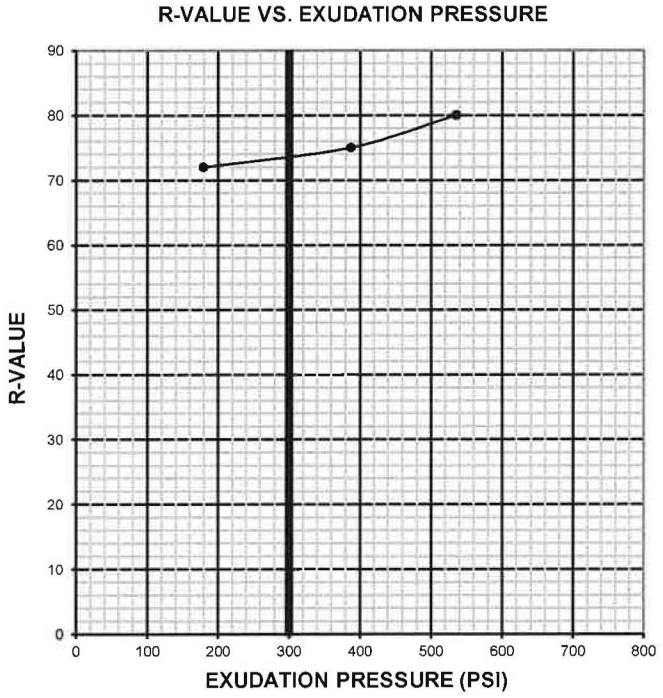
Plate C

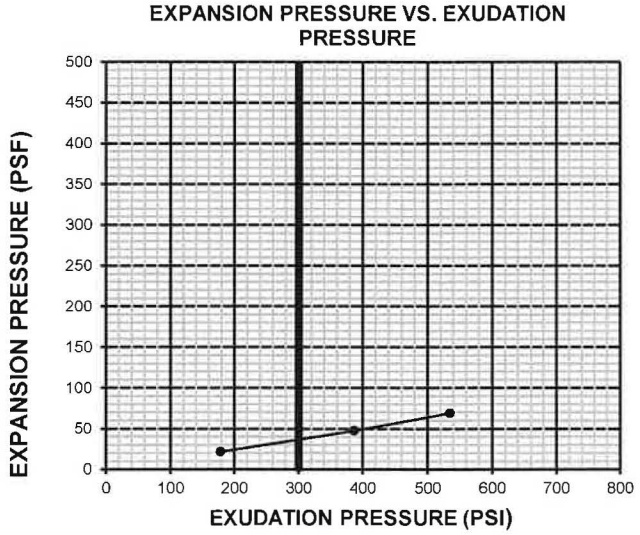
R-VALUE TEST REPORT

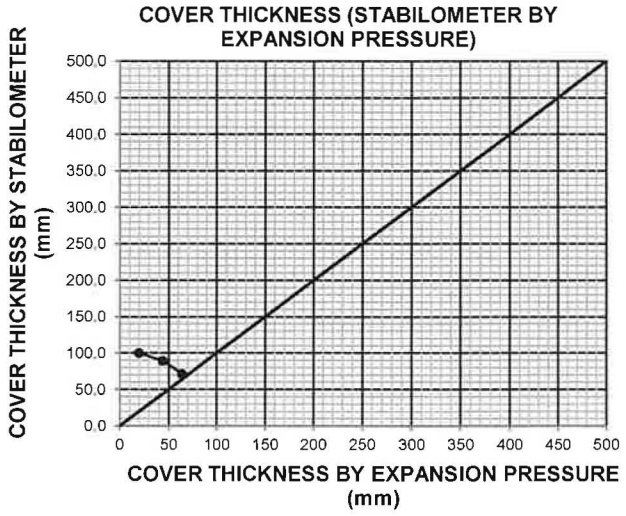
☑ CT-301 ☐ ASTM-D2844

PROJECT NAME:	Norcal: Patriot Development Partners (22775-21)	PROJECT NUMBER:	L-210901
SAMPLE LOCATION:	NWC of 3rd St and Central Ave, Highland, CA	SAMPLE NUMBER:	T1
SAMPLE DESCRIPTION:	SILTY SAND (SM), brown	SAMPLE DEPTH:	2.0'
SAMPLED BY:	Norcal 9/14/21	TESTED BY:	ER
		DATE TESTED:	9/15/2021

TEST SPECIMEN	A	B	C
MOISTURE AT COMPACTION %	11.5	10.8	10.1
WEIGHT OF SAMPLE, grams	1050	1041	1033
HEIGHT OF SAMPLE, Inches	2.41	2.40	2.39
DRY DENSITY, pcf	118.5	118.7	119.0
COMPACTOR AIR PRESSURE, psi	350	350	350
EXUDATION PRESSURE, psi	179	387	535
EXPANSION, Inches x 10exp-4	5	11	16
STABILITY Ph 2,000 lbs (160 psi)	23	18	16
TURNS DISPLACEMENT	5.61	5.87	5.38
R-VALUE UNCORRECTED	73	77	81
R-VALUE CORRECTED	72	75	80
EXPANSION PRESSURE (psf)	21.6	47.5	69.1







R-VALUE AT EQUILIBRIUM:	74

R-VALUE BY EXUDATION PRESSURE:	74
R-VALUE BY EXPANSION PRESSURE:	N.A.
EXPANSION PRESSURE AT 300 PSI EXUDATION:	35
TRAFFIC INDEX (Assumed):	5.5
GRAVEL FACTOR (Assumed):	1.5
UNIT MASS OF COVER MATERIAL, kg/m^3 (Assumed):	2100.0

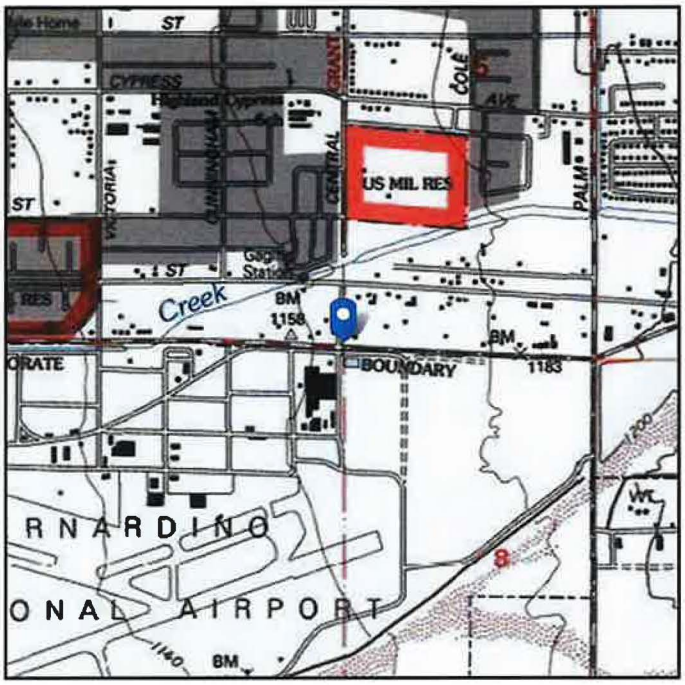
Appendix C
Seismic Design Report

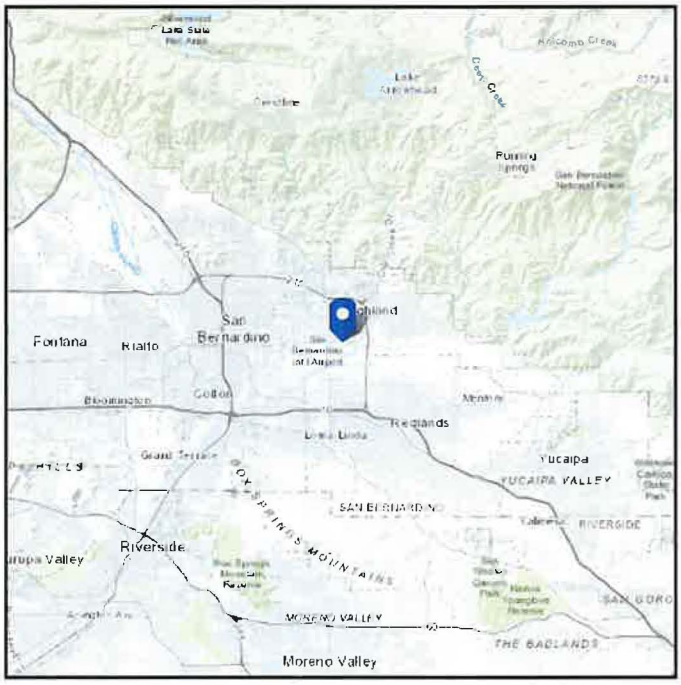
ASCE 7 Hazards Report

Address:
3rd St & Central Ave
Highland, California
92346

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 0 ft (NAVD 88)
Latitude: 34.10655
Longitude: -117.2176





ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

Site Soil Class: D - Stiff Soil

Results:

S_S :	2.32	S_{D1} :	N/A
S_1 :	0.861	T_L :	8
F_a :	1	PGA :	0.956
F_v :	N/A	PGA_M :	1.051
S_{MS} :	2.32	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1
S_{DS} :	1.547	C_v :	1.5

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Mon Oct 04 2021

Date Source: USGS Seismic Design Maps

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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Appendix D
Soil Infiltration Data

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Project: Patriot Development Partners
Project No.: 22775-21
Date: 9/14/21
Test No. 1
Depth: 5'
Tested By: D.R.

TIME (hr/min)	CHANGE TIME (min)	CUMULATIVE TIME (min)	INNER RING READING (cm)	INNER RING CHANGE	INNER RING FLOW (cc)	OUTER RING READING (cm)	OUTER RING CHANGE	OUTER RING FLOW (cc)	INNER RING INF RATE (cm/hr)	OUTER RING INF RATE (cm/hr)	INNER RING INF RATE (ft/hr)
7:52			101.0			42.5					
7:54	2	2	110.0	9.0		52.0	9.5				
7:54			100.5			42.0					
7:56	2	4	110.0	9.5		51.2	9.2				
7:56			97.3			41.2					
7:58	2	6	107.5	10.2		49.5	8.3				
7:58			99.0			40.7					
8:00	2	8	107.1	8.1		49.0	8.3				
8:00			99.1			40.7					
8:02	2	10	106.7	7.6		48.6	7.9				
8:02			98.9			41.0					
8:04	2	12	106.4	7.5		48.1	7.1				
8:04			99.3			41.7					
8:06	2	14	107.0	7.7		49.3	7.6		231.0	228.0	
8:06			99.5			41.1					
8:08	2	16	106.8	7.3		48.2	7.1		219.0	213.0	
8:08			98.9			40.7					
8:10	2	18	106.1	7.2		47.9	7.2		216.0	216.0	
8:10			99.3			40.8					
8:12	2	20	105.9	6.6		47.6	6.8		198.0	204.0	
8:12			99.1			41.0					
8:14	2	22	106.2	7.1		48.3	7.3		213.0	219.0	
8:14			98.0			39.7					
8:16	2	24	105.0	7.0		46.7	7.0		210.0	210.0	

Average = 214.5 / 215.0 cm/hr

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Project: Patriot Development Partners
Project No.: 22775-21
Date: 9/14/21
Test No. 2
Depth: 10'
Tested By: D.R.

TIME (hr/min)	CHANGE TIME (min)	CUMULATIVE TIME (min)	INNER RING READING (cm)	INNER RING CHANGE	INNER RING FLOW (cc)	OUTER RING READING (cm)	OUTER RING CHANGE	OUTER RING FLOW (cc)	INNER RING INF RATE (cm/hr)	OUTER RING INF RATE (cm/hr)	INNER RING INF RATE (ft/hr)
9:27			102.0			39.6					
9:29	2	2	107.9	5.9		45.5	5.9				
9:29			97.6			40.3					
9:31	2	4	101.8	4.2		45.3	5.0				
9:31			100.5			39.1					
9:33	2	6	104.0	3.5		44.0	4.9				
9:33			99.1			37.9					
9:35	2	8	102.7	3.6		43.0	5.1				
9:35			98.1			47.5					
9:37	2	10	101.7	3.6		52.4	4.9				
9:37			98.9			39.9					
9:39	2	12	102.5	4.0		44.8	4.9				
9:39			99.0			38.7					
9:41	2	14	102.7	3.7		43.8	5.1		111.0	153.0	
9:41			98.6			37.7					
9:43	2	16	102.7	4.1		42.5	4.8		123.0	144.0	
9:43			98.4			36.9					
9:45	2	18	102.9	4.5		42.9	6.0		135.0	180.0	
9:45			98.4			38.3					
9:47	2	20	102.5	4.1		42.3	4.0		123.0	120.0	
9:47			99.5			37.7					
9:49	2	22	103.7	4.2		43.3	5.6		126.0	168.0	
9:49			97.7			37.7					
9:51	2	24	102.3	4.6		42.7	5.0		138.0	150.0	

Average = 126.0 / 152.5 cm/hr

Appendix E

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

8082 Central Avenue; Highland, CA 92346

Prepared for:

Patriot Development Partners
12126 West Sunset Boulevard
Los Angeles, CA 90094

Prepared by:

Hazard Management Consulting, Inc.
211 W. Avenida Cordoba, Suite 200
San Clemente, CA 92672
(949) 361-3902

September 27, 2021

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Executive Summary

Hazard Management Consulting, Inc. (HMC) is pleased to submit this Environmental Site Assessment (ESA) for the property referenced above in the City of Highland, California (Site) (Figures 1 & 2). This ESA was prepared to evaluate the Site for potential Recognized Environmental Conditions (RECs) that may be present and was conducted as part of your due diligence efforts to acquire the Site. The Site is noted to be an approximately 3.14-acre parcel used as a semi-truck and trailer staging yard. Light maintenance was also noted to be performed on the vehicles at the Site. The Site has historically been seen as vacant land, agricultural land, automobile and parts sales, and residential uses.

The Site is relatively flat with an elevation of approximately 1,165 feet above mean sea level (msl) with a regional slope to the west. The Site is located in the City of Highland, San Bernardino County and is set in mixed use type setting with residential and small industrial operations. The San Bernardino International Airport is located approximately 1,800 feet south southwest of the Site.

The Site is bound:

- to the north by residential properties, New West Upholstery Shop, and the Highland Head Start preschool;
- on the east by Central Avenue across which is a construction storage yard;
- to the south by 3rd Street across which is vacant land, some of which contains a concrete/asphalt crush pile; and,
- to the west by vacant land.

Key findings of this Phase I ESA are as follows:

- The Site and Site vicinity was observed to have historically been used for residential, agricultural, and vacant land from the earliest aerial photographs beginning in 1930. Residential uses were developed at the Site and Site vicinity over the years. The Site appeared to have been occupied by individuals for residential uses and some of them may have operated businesses from their homes. The Site was first seen with vehicle storage in 1985. The Site remained in

residential and storage uses until the residential portions of the Site were first seen as vacant land again in 2012;

- The Site vicinity was noted with similar uses as the Site since the earliest records. The northern portion of the NAFB was visible to the south of the Site which included barracks and the Aerospace Audiovisual Service. In more recent years the Site vicinity has been noted to be developed with small industrial operations, residential, and the San Bernardino International Airport where the former NAFB was once located;

- The Site was seen to be currently used as a semi-truck and trailer staging lot. Light maintenance was observed to be ongoing at the Site. Grease and oil were observed to be used as part of the maintenance activity and diminimis to moderate oil staining was observed at various locations at the Site;

- The Site was noted to be paved with crushed asphalt or gravel. The crushed asphalt areas were noted to contain shredded paving fabric mixed in. Paving fabric may contain asbestos fibers. HMC recommends sampling the asphalt and fabric prior to any removal activity as this may require AQMD permitting and special handling and disposal methods if the material is to be removed;

- Based on the review of the available regulatory information, the Site is located in an area with a history of industrial and military uses. The records indicate that some facilities in the Site vicinity use and store chemicals along with associated wastes. No evidence of releases were found in the Site vicinity with the exception of leaking USTs and the former NAFB. The noted releases were not considered to pose a threat to the Site given their orientation, distance to, and/or the nature of the release;

- Due to the southerly cross gradient orientation of the former Norton Air Force Base to Site, this former facility is generally considered not to pose an environmental threat to the Site. However, the former IRP 2 Landfill, a part of the NAFB was located upgradient from the Site. This landfill accepted wastes that contained industrial waste in addition to general refuse. The landfill is now capped

an operated under an OMM program. Given the ongoing monitoring and the responsible party identified, this former landfill is not considered to pose a REC;

- Given the findings of this Phase I ESA, there is a low likelihood of a vapor intrusion condition;

- The date of construction for the garage structure observed at the Site is unknown. All suspect materials should be sampled prior to any disturbance; and,

- The paving fabric observed mixed in with the crushed asphalt should be sampled for asbestos as paving fabrics may contain asbestos fibers. Sampling should be done prior to any handling or other disturbance of this material.

Conclusions

We have performed a Phase I Environmental Site Assessment and Phase II Limited Soil Investigation in accordance with ASTM E1527-13 Guidelines for the property located at 8082 Central Avenue in the City of Highland, California. HMC has identified no RECs or HRECs.

Poor housekeeping practices were observed at the Site which appears to have resulted in some surficial staining. These observations were deemed notable however the stains were located on gravel and crushed asphalt and did not appear to rise to the level of an REC.

While not a REC by ASTM standards, the crushed asphalt/paving fabric located at the Site may contain asbestos. All suspect ACMs at the Site should be sampled prior to any disturbance.

Recommendations

Based on the findings of this ESA, we recommend the following:

- Improved housekeeping efforts on behalf of the Site occupant if they or similar facility are to continue to operate at the Site; and,
- The paving fabric mixed in with the crushed asphalt should be sampled prior to any handling or other disturbance;

- A pre-demolition ACM survey of the structures should be conducted prior to any disturbance of suspected ACMs.

PHASE I ENVIRONMENTAL SITE ASSESSMENT
8082 Central Avenue Highland, California 92346

1. INTRODUCTION

Hazard Management Consulting, Inc. (HMC) is pleased to submit this Environmental Site Assessment (ESA) for the property referenced above in the City of Highland, California (Site) (Figures 1 & 2). This ESA was prepared to evaluate the Site for potential Recognized Environmental Conditions (RECs) that may be present and was conducted as part of your due diligence efforts to acquire the Site. The Site is noted to be an approximately 3.14-acre parcel used as a semi-truck and trailer staging yard. Light maintenance was also noted to be performed on the vehicles at the Site. The Site has historically been seen as vacant land, agricultural land, automobile and parts sales, and residential uses.

The Site is relatively flat with an elevation of approximately 1,165 feet above mean sea level (msl) with a regional slope to the west. The Site is located in the City of Highland, San Bernardino County and is set in mixed use type setting with residential and small industrial operations. The San Bernardino International Airport is located approximately 1,800 feet south southwest of the Site.

1.1. Objective

In accordance with the ASTM E 1527-13 Standard Practice for Environmental Site Assessments, the objective of the ESA is to assess, to the extent feasible under the standard, the likelihood that Recognized Environmental Conditions (RECs), as defined by ASTM, are present at the Site.

A Recognized Environmental Condition "means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies" (ASTM Standard Practice E1527-13). Performance of a Phase I ESA is intended to reduce, but not eliminate,

uncertainty regarding the potential for Recognized Environmental Conditions in connection with a property, within reasonable limits of time and cost.

All Appropriate Inquires (AAI) as defined in the Final Rule (40 CFR, Part 312), must be conducted by persons seeking the landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) prior to acquiring a property or seeking or receiving federal brownfields grants under the authorities of CERCLA. The purpose of AAI, as defined in the AAI Final Rule, is to identify releases and threatened releases of hazardous substances, which cause or threaten to cause the incurrence of response costs. The U.S. Environmental Protection Agency (EPA) has stated that ASTM Standard E-1527-13 is consistent with the Standards and Practices for AAI and is compliant with the statutory criteria for AAI.

1.2. Scope of Services, Methodology and Limitations

The findings of this ESA must be viewed in recognition of certain limiting conditions. The scope of work commissioned for this project does not represent an exhaustive study, but rather a reasonable inquiry, consistent with good commercial practice, in general accordance with ASTM Practice E-1527-13.

The scope of work for this ESA included the following activities:

- A Site walk to document the current condition of the Site and neighboring facilities.
- Review of a regulatory database report.
- Review of previously prepared reports for the Site.
- Submittal of questionnaires to the current Owner and User of the report.
- Review of historical references including aerial photographs, city directories, Sanborn Maps and topographic maps.
- On-line research and file review requests concerning the Site and suspect off site sources at the State of California Regional Water Quality Control Board (RWQCB) and Department of Toxic Substances Control (DTSC) websites.

- Review of records maintained by the San Bernardino County Fire Protection District.
- Review of records kept by the South Coast Air Quality Management District.
- Review of Records kept by the City of Highland.
- Preparation of this report of findings.

In the course of this assessment, HMC has relied on information provided by outside parties, such as regulatory agencies, previous reports and interview sources. For the purpose of this assessment, such third-party information is assumed to be accurate unless contradictory evidence is noted, and HMC does not express or imply any warranty regarding information provided by third-party sources.

2. SITE DESCRIPTION

2.1. Site Setting

The Site is noted to be an approximately 3.14-acre parcel. The Site is relatively flat with an elevation of approximately 1,165 feet above mean sea level (msl) with a regional slope to the west. The Site is located in the City of Highland, San Bernardino County and is set in mixed use type setting with residential and small industrial operations. The San Bernardino International Airport is located approximately 1,800 feet south southwest of the Site.

The Site is bound:

- to the north by residential properties, New West Upholstery Shop, and the Highland Head Start preschool;
- on the east by Central Avenue across which is a construction storage yard;
- to the south by 3rd Street across which is vacant land, some of which contains a concrete/asphalt crush pile; and,
- to the west by vacant land.

Utilities in the Site vicinity are provided by:

- Electricity: Southern California Edison
- Natural Gas: Southern California Gas Company
- Water: East Valley Water District
- Sewer: East Valley Water District

2.2. Regional Geology and Hydrogeology

Information regarding regional geological and hydrogeological conditions was obtained from information included on the California Department of Water Resources (CDWR) website. The Site lies within the Bunker Hill Subbasin and consists of the alluvial materials that underlie the San Bernardino Valley. This subbasin is bound by contact with consolidated rocks of the San Gabriel Mountains, San Bernardino Mountains, and Crafton Hills, and by several faults. The southern boundary is the Banning fault, the east boundary is the Redlands fault, the San Andreas fault is roughly the northern boundary, the Glen Helen fault abuts the northwest boundary, and the southwest boundary is the San Jacinto fault. The Santa Ana River, Mill Creek, and Lytle Creek are the main tributary streams in the subbasin. The range in annual precipitation is 13 to 31 inches.

A 5-Year Review Report for the nearby former Norton Air Force Base reported groundwater to be found at depths ranging between approximately 75 to 250 feet below ground surface (bgs) including perched groundwater layers that may be found in the 30 to 60 foot range in the Site vicinity. Groundwater flow was assumed to flow in a westerly direction, generally following the topographical slope of the region.

2.3. Interviews and User Provided Information

The User of this report is Patriot Partners (Patriot) who is looking to acquire the Site and would be considered a “User” of the report per ASTM definitions. We requested all available information from the User.

2.4. Title Records

A Title Report was not provided to HMC for review.

2.5. User Knowledge

We interviewed Mr. Kevin Rice of Patriot who indicated that his firm has no previous knowledge or experience with the property and is unaware of any chemical spills or

releases or ongoing environmental matters. He indicated that they are paying full market value for the Site.

2.6. Owner/Occupant Knowledge

HMC Owner Questionnaires have not been returned for review and the owner has not been made available for interview.

2.7. Environmental Liens or Activity and Use Limitations

The best of HMC's knowledge, there are no environmental liens or AULs in relation to the Site.

3. SITE USE AND HISTORY

Past usage of the subject Site was assessed through a review of historical aerial photographs, topographic maps and an EDR search of city directories and prior reports. Sanborn maps were not generated for the Site.

3.1. Aerial Photograph Review

Aerial photographs covering the Site were obtained from Environmental Data Resources, Inc. (EDR). Photographs were available from the period 1930 through 2016. Copies of the aerial photographs are included in Appendix B. A summary of the observations noted from the aerial photographs is as follows:

1930 The Site and Site vicinity was seen as vacant land.

1938 The Site was seen with agricultural uses. The Site vicinity was seen with agricultural and residential uses.

1949 The Site was first seen with residential uses as well as vacant land. Sparse residential uses were noted in the Site vicinity. What appeared to be the barracks of the former Norton Air Force Base (NAFB) was seen south of the Site across what is now 3rd Street.

1953 No significant changes were observed at the Site or the Site vicinity with the exception of a construction yard noted immediately west of the Site.

1959 No significant changes were observed at the Site. An industrial structure

on the NAFB was first seen south of the Site across 3rd Street. Further investigation revealed this structure to house the Aerospace Audiovisual Service which contained photo labs.

1966 No significant changes were observed at the Site or the Site vicinity.

1966 No significant changes were observed at the Site or the Site vicinity with the exception of an additions made to the industrial building south of the Site.

1975 Vacant land was seen in the area of a previously observed residential structure on the east side of the Site. The barracks area south of the Site was then seen to be mostly vacant land.

1985 The Site was first seen with a vehicle storage lot in the southwest corner. No significant changes were observed in the Site vicinity.

1989 A residential structure was seen on the east portion of the Site. No significant changes were observed in the Site vicinity.

1994-06 No significant changes were observed at the Site or the Site vicinity with the exception of land immediately east of the Site across Central Avenue was noted with a construction storage yard in 2002.

2009 No significant changes were observed at the Site. An industrial facility was first seen southeast of the Site across 3rd Street.

2012-16 The Site was seen with vacant land where residential structures were noted previously observed. Vehicle storage uses remained in the southwest corner of the Site. No significant changes were seen in the Site vicinity.

3.2. Topographic Maps

Historical topographic maps were also reviewed as part of this effort and aided in interpreting the overall Site history. Although, no specific observations were made from the review of these maps.

3.3. Sanborn Maps

Sanborn maps are maps that were created for the insurance industry to document site activities in metropolitan areas of the country and were used in underwriting. They often times contain detailed information about a site. While they were prepared for insurance underwriting and were not environmental maps per se, they often times contain information that is useful in evaluating the historical use of a site. Sanborn maps were not generated for the Site.

3.4. EDR City Directory Review

EDR performed a search of the City Directory records for the Site addresses and nearby properties at approximately five-year intervals. Review of this report yielded the following findings:

8082 Central Ave.

Year	Use
1971	A&B Thrift Shop

26840 3rd St.

Year	Use
No Listings	

26854 3rd St.

Year	Use
1995	Ward, Martha E.
1992	Dollhouse
1971-80	Ward, Dan

26892 3rd St.

Year	Use
2005-10	Kester, Emilce M.
1992-95	Newsom, Ernest R.

3.5. Summary

The Site and Site vicinity was observed to have historically been used for residential, agricultural, and vacant land from the earliest aerial photographs beginning in 1930. Residential uses were developed at the Site and Site vicinity over the years. The Site appeared to have been occupied by individuals for residential uses and some of them may have operated businesses from their homes. The Site was first seen with vehicle storage in 1985. The Site remained in residential and storage uses until the residential portions of the Site were first seen as vacant land again in 2012.

The Site vicinity was noted with similar uses as the Site since the earliest records. The northern portion of the NAFB was visible to the south of Site which included barracks and the Aerospace Audiovisual Service. In more recent years the Site vicinity has been noted to be developed with small industrial operations, residential, and the San Bernardino International Airport where the former NAFB once was.

4. PRIOR INVESTIGATIONS

4.1. HEI Corporation, Phase I ESA 2020

HEI prepared a Phase I ESA dated August 12, 2020 for the Site. HEI identified vacant land, residential, and automotive and parts sales as historical uses at the Site. HEI identified no observations or records indicating any current or historical adverse environmental conditions in relation to the Site.

HEI identified one facility, the NAFB IRP-2 Landfill, as a potential off-Site source of contamination. The landfill was located southeast of the 3rd Street and Central Avenue intersection. However, HEI reported that the landfill has been capped and has an ongoing Operations, Maintenance, and Monitoring system in place. It was not determined that this former facility posed a threat to the Site given the controls in place.

HEI stated that no RECs were found in connection with the Site and recommended no further action was necessary.

5. SITE RECONNAISSANCE

Mr. Troy Taylor of HMC conducted a Site and Site vicinity reconnaissance on September 1, 2021. The reconnaissance was conducted in order to identify visible evidence of REC's at the Site and to assess possible conditions off Site that may impact the Site. Mr. Taylor was unescorted at the Site.

The Site was seen to be a semi-truck and trailer staging lot. A mobile office trailer was seen in the southwest corner of the Site and a garage type structure along the western border. The remainder of the Site was noted with the truck and trailer storage. Light maintenance was observed to be ongoing at the Site. De minimis to moderate oil staining was observed at various locations at the Site. HMC recommends improved housekeeping practices at the Site if the current occupant is to remain at the Site for any period of time.

The Site was noted to be paved with crushed asphalt or gravel. The crushed asphalt areas were noted to contain shredded paving fabric mixed in. Paving fabric may contain asbestos fibers. HMC recommends sampling the asphalt and fabric prior to any removal activity as this may require AQMD permitting and special handling and disposal methods if the material is to be removed.

Selected photographs illustrating the Site and nearby off-Site conditions are included in Appendix A. Summaries of the Site and observations are detailed below.

Description and Use of Site:	The Site is noted to be semi-truck and trailer storage yard.
Underground and Aboveground Storage Tanks:	No evidence of USTs or ASTs was observed at the Site.
Hazardous Materials, Hazardous Wastes or Petroleum Products:	Grease and oils were observed in use as part of the light maintenance activities.
Drains, Drain lines and Sumps:	These features were not observed at the Site.

Pits, Ponds, Lagoons	These features were not seen at the Site.
Industrial Wastewater:	Wastewater was not observed to be generated at the Site.
Stains:	De minimis to moderate oil staining on the gravel/asphalt was observed at the Site but was not considered to rise to the level of an REC.
Wells:	No wells were observed at the Site.
Transformers:	No transformers were seen at the Site.
Other Features:	No other features of note were seen at the Site.

5.1. Site Vicinity

The Site is located in a mixed use area and is bound:

- to the north by residential properties, New West Upholstery Shop, and the Highland Head Start preschool;
- on the east by Central Avenue across which is a construction storage yard;
- to the south by 3rd Street across which is vacant land, some of which contains a concrete/asphalt crush pile; and,
- to the west by vacant land.

6. REGULATORY AGENCY DATABASE RESEARCH

Regulatory agency database information was obtained from a standard radius Site Assessment (ASTM) report by Environmental Data Resources, Inc. The center of the search was in the approximate center of the Site. Search distances for specific databases were one-quarter to one mile as specified in the ASTM 1527-13 standard. The database search includes over 70 federal, state, local, and proprietary records. A complete copy of this report is included in Appendix B.

6.1. Database Records Concerning the Target Property

The Site was not listed in any of the databases searched as part of the EDR report.

6.2. Database Records Concerning the Site Vicinity

We reviewed the database report for off-Site potential sources within the relevant search distance. In review of the many entries on the database, we reviewed the following factors that affect the ability of a facility to affect the Site:

- Distance from the Site,
- Location from the Site with regard to the direction of groundwater flow,
- Nature of the release and whether the release has affected soil, groundwater or both,
- Status of the investigation (e.g. open or closed)

Groundwater was assumed to flow west given the topographical gradient, therefore facilities located adjacent to or to the east were further considered. Only those facilities judged using these factors are discussed below. The following presents a summary of our findings:

Location	Address	Dist.	Dir.	Lists	REC	RATIONALE
Norton Air Force Base	305 Tippecanoe Ave.	3,463'	SW	FUDS, ENVIROSTOR, HWP, CERS, NPL, SEMS, CORRACTS, RCRA TSDF, RCRA SQG, SITE, US INST CONTROLS, ROD, PADS	NO	This former Air Force base has undergone investigations and remediation from 1982 until 2001 when the project was considered complete. Groundwater monitoring is ongoing and residual contamination is present in groundwater beneath the former facility, although reportedly below the current MCLs, most notably TCE. The presence of the VOC contaminated groundwater is not expected to affect the Site due to its southerly cross gradient orientation.
Norton AFB Landfill	I-10/US 395 Former Norton AFB	1,272'	SE	SWF/LF (SWIS) CERS	NO	This former landfill, referred to as the IRP-2 Landfill, was a part of the former NAFB. It was used to accept general refuse, demolition debris, and industrial waste. Chemicals of concern related to this landfill included freon, lead, polychlorinated biphenyls (PCBS), tetrachloroethylene (PCE),

						trichloroethylene (TCE), and vinyl chloride. The status with the RWQCB is Open - Verification Monitoring since 2009. An Operations, Maintenance, and Monitoring Program is in place as well as the area being capped with an asphalt parking lot. As reported in a 2020 5-Year Report for the NAFB, the institutional controls are in place and monitoring shows they are functioning as expected. Given the ongoing mitigation and monitoring as well as the responsible party identified, this former facility is not considered a REC.

Orphan Sites

Orphan Sites are those properties that are included on various agency lists, but for which the records do not have sufficient address information for the database program to map the site. No orphan sites identified appeared to be of a nature and/or orientation to have affected the Site.

6.3. Summary of Off-Site Issues

Based on the review of the available regulatory information, the Site is located in an area with a history of industrial and military uses. The records indicate that some facilities in the Site vicinity use and store chemicals along with associated wastes. No evidence of releases were found with the exception of leaking USTs and the former NAFB. The noted releases were not considered to pose a threat to the Site given their orientation and/or the nature of the release.

Due to the southerly cross gradient orientation of the former NAFB to Site, this former facility is generally considered not to pose an environmental threat to the Site. However, the former IRP 2 Landfill, a part of the NAFB was located upgradient from the Site. This landfill accepted wastes that contained industrial waste in addition to general refuse. The

landfill is now capped an operated under an OMM program. Given the ongoing monitoring and the responsible party identified, this former landfill is not considered to pose a REC.

7. LOCAL AGENCY AND OTHER RECORDS REVIEW

7.1. Tribal Records

The Site is not located in a tribal area therefore there were no tribal records to review.

7.2. Oil and Gas Wells

The State of California Department of Conservation, Division of Oil, Gas, and Geothermal Resources online mapping website was reviewed for the location of active, plugged, or abandoned oil and gas wells in the vicinity of the Site. No oil or gas wells were listed as having been drilled on or in the immediate vicinity of the Site.

7.3. State of California

The State of California Geotracker and EnviroStor websites were also reviewed for information on potential on or off-Site facilities that are being remediated under either RWQCB or DTSC oversight. No active cases were listed on these databases that were not listed in the EDR review.

HMC also submitted public records requests to the DTSC and RWQCB for the Site. Records searches for the Site yielded no responsive records found by either agency.

7.4. San Bernardino County Fire Protection District

A public records request was submitted online to the SBC FPD. No responsive files were found for the Site.

7.5. City of Highland

HMC submitted a public records request to the City of Highland. At the time of this report, this request is still being processed.

7.6. South Coast Air Quality Management District

A review of the SCAQMD Facility Information Detail website indicated that no records were found for the Site.

8. VAPOR INTRUSION, ASBESTOS AND OTHER CONCERNS

8.1. Vapor Intrusion

Given the findings of this Phase I ESA, there is a low likelihood of a vapor intrusion condition.

8.2. Asbestos Containing Materials

The date of construction for the garage structure observed at the Site is unknown. It is unlikely that ACMs present a hazard at this structure however all suspect materials should be sampled prior to any disturbance.

The paving fabric observed mixed in with the crushed asphalt should be sampled for asbestos as paving fabrics may contain asbestos fibers. Sampling should be done prior to any handling or other disturbance of this material.

8.3. Radon

The Site is listed as being located in Zone 2 with regards to radon indicating that radon maybe present at concentrations less than 4 pico curies per liter.

8.4. Mold

No evidence of mold or water damage was observed at the Site.

9. SUMMARY OF FINDINGS

Key findings of this Phase I ESA are as follows:

- The Site and Site vicinity was observed to have historically been used for residential, agricultural, and vacant land from the earliest aerial photographs beginning in 1930. Residential uses were developed at the Site and Site vicinity over the years. The Site appeared to have been occupied by individuals for residential uses and some of them may have operated businesses from their homes. The Site was first seen with vehicle storage in 1985. The Site remained in residential and storage uses until the residential portions of the Site were first seen as vacant land again in 2012;

- The Site vicinity was noted with similar uses as the Site since the earliest records. The northern portion of the NAFB was visible to the south of the Site which included barracks and the Aerospace Audiovisual Service. In more recent years the Site vicinity has been noted to be developed with small industrial operations, residential, and the San Bernardino International Airport where the former NAFB was once located;

- The Site was seen to be currently used as a semi-truck and trailer staging lot. Light maintenance was observed to be ongoing at the Site. Grease and oil were observed to be used as part of the maintenance activity and diminimis to moderate oil staining was observed at various locations at the Site;

- The Site was noted to be paved with crushed asphalt or gravel. The crushed asphalt areas were noted to contain shredded paving fabric mixed in. Paving fabric may contain asbestos fibers. HMC recommends sampling the asphalt and fabric prior to any removal activity as this may require AQMD permitting and special handling and disposal methods if the material is to be removed;

- Based on the review of the available regulatory information, the Site is located in an area with a history of industrial and military uses. The records indicate that some facilities in the Site vicinity use and store chemicals along with associated wastes. No evidence of releases were found in the Site vicinity with the exception of leaking USTs and the former NAFB. The noted releases were not considered to pose a threat to the Site given their orientation, distance to, and/or the nature of the release;

- Due to the southerly cross gradient orientation of the former Norton Air Force Base to Site, this former facility is generally considered not to pose an environmental threat to the Site. However, the former IRP 2 Landfill, a part of the NAFB was located upgradient from the Site. This landfill accepted wastes that contained industrial waste in addition to general refuse. The landfill is now capped an operated under an OMM program. Given the ongoing monitoring and the responsible party identified, this former landfill is not considered to pose a REC;

- Given the findings of this Phase I ESA, there is a low likelihood of a vapor intrusion condition;

- The date of construction for the garage structure observed at the Site is unknown. All suspect materials should be sampled prior to any disturbance; and,

- The paving fabric observed mixed in with the crushed asphalt should be sampled for asbestos as paving fabrics may contain asbestos fibers. Sampling should be done prior to any handling or other disturbance of this material

10. DATA GAPS

The following data gaps were identified during this investigation:

- A Title report was not provided to HMC;
- An Owner/Operator Questionnaire has not been provided to HMC for review; and,
- The City of Highland is still processing HMC's public records request at the time of this report.

11. CONCLUSIONS

We have performed a Phase I Environmental Site Assessment and Phase II Limited Soil Investigation in accordance with ASTM E1527-13 Guidelines for the property located at 8082 Central Avenue in the City of Highland, California. HMC has identified no RECs or HRECs.

Poor housekeeping practices were observed at the Site which appears to have resulted in some surficial staining. These observations were deemed notable however the stains were located on gravel and crushed asphalt and did not appear to rise to the level of an REC.

While not a REC by ASTM standards, the crushed asphalt/paving fabric located at the Site may contain asbestos. All suspect ACMs at the Site should be sampled prior to any disturbance.

12. RECOMMENDATIONS

Based on the findings of this ESA, we recommend the following:

- Improved housekeeping efforts on behalf of the Site occupant if they or similar facility are to continue to operate at the Site; and,
- The paving fabric mixed in with the crushed asphalt should be sampled prior to any handling or other disturbance;
- A pre-demolition ACM survey of the structures should be conducted prior to any disturbance of suspected ACMs.

13. QUALIFICATIONS

Mark S. Cousineau, NREP

Mr. Mark S. Cousineau, principal with HMC, has a diverse professional background in environmental management, which includes working as a generator, regulator, consultant, and corporate advisor in hazardous waste and other environmental issues.

Mr. Cousineau's technical background is focused in the area of overseeing large-scale environmental investigations and regulatory compliance management related to site assessments, subsurface investigations, facility surveys, and site remediation. To projects such as these, Mr. Cousineau brings expertise in evaluating complex sites and developing solutions to solve the technical, operational, regulatory, financial and timing issues. In addition, Mr. Cousineau routinely assists clients in developing environmental business plans for single assets and multi-site real estate portfolios and has designed and implemented several tenant audit programs involving the proactive management of environmental risk caused by on-site commercial and industrial tenant activities.

Mr. Cousineau has provided litigation support and has served, as a court-appointed expert on environmental issues, is a Member of the National Registry of Environmental Professionals, holds a M.S. in Environmental Sciences from California State University Fullerton and a B.S. in Chemistry from University California San Diego.

As signatory to this report, I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of this part. I have the specific qualifications based on education, training, and experience to assess the property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

Mark Cousineau, NREP
Principal

14. REFERENCES

California Department of Water Resources, California's Groundwater - Bulletin 118, February 27, 2004

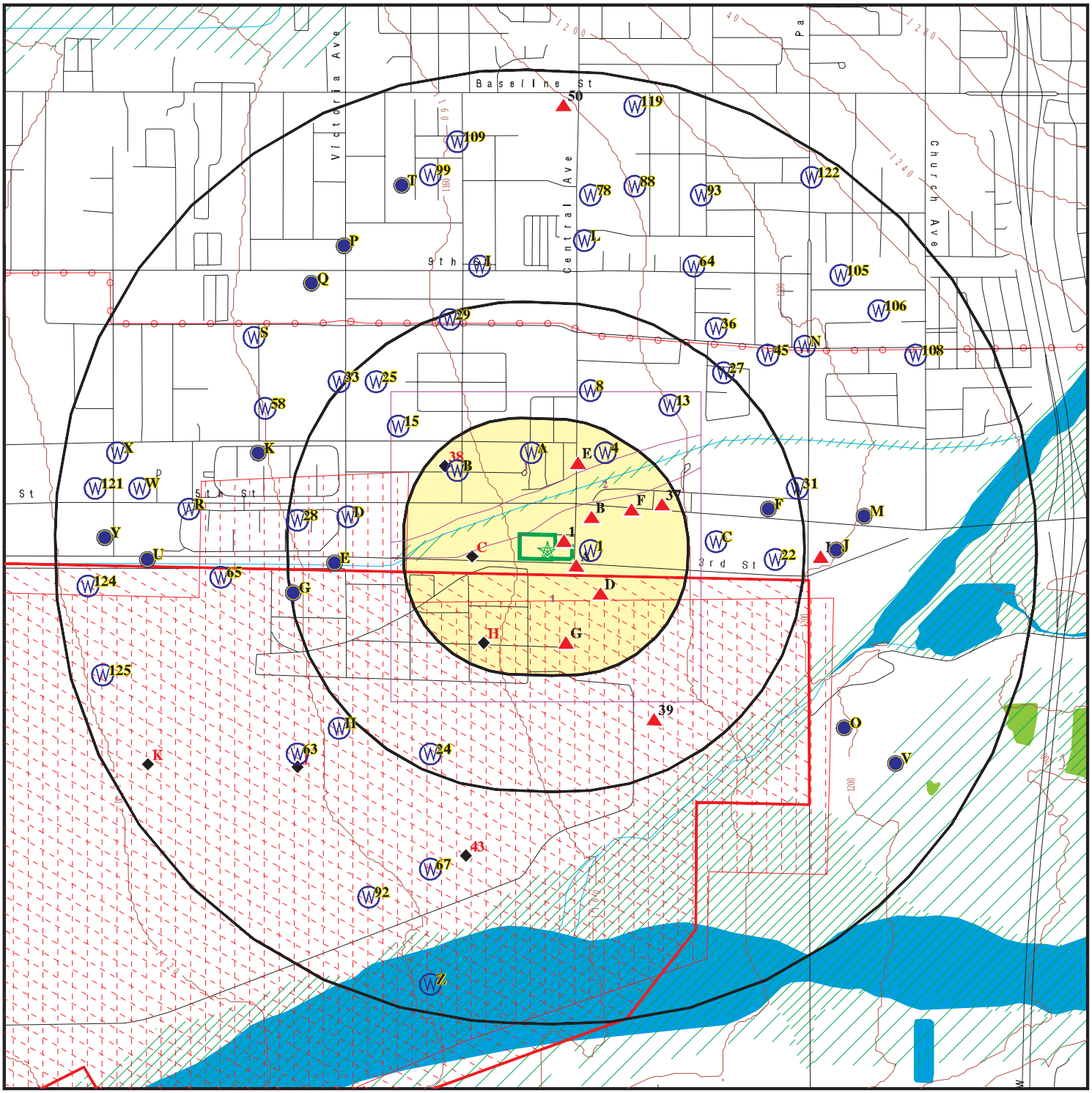
https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=36970004

https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=DOD100360600

HEI Corporation, Phase I ESA Eight Parcels of Land Northwest Corner of 3rd Street and Central Avenue Highland, California, August 12, 2020

TABLES

OVERVIEW MAP - 6657652.2S



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

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:25 am

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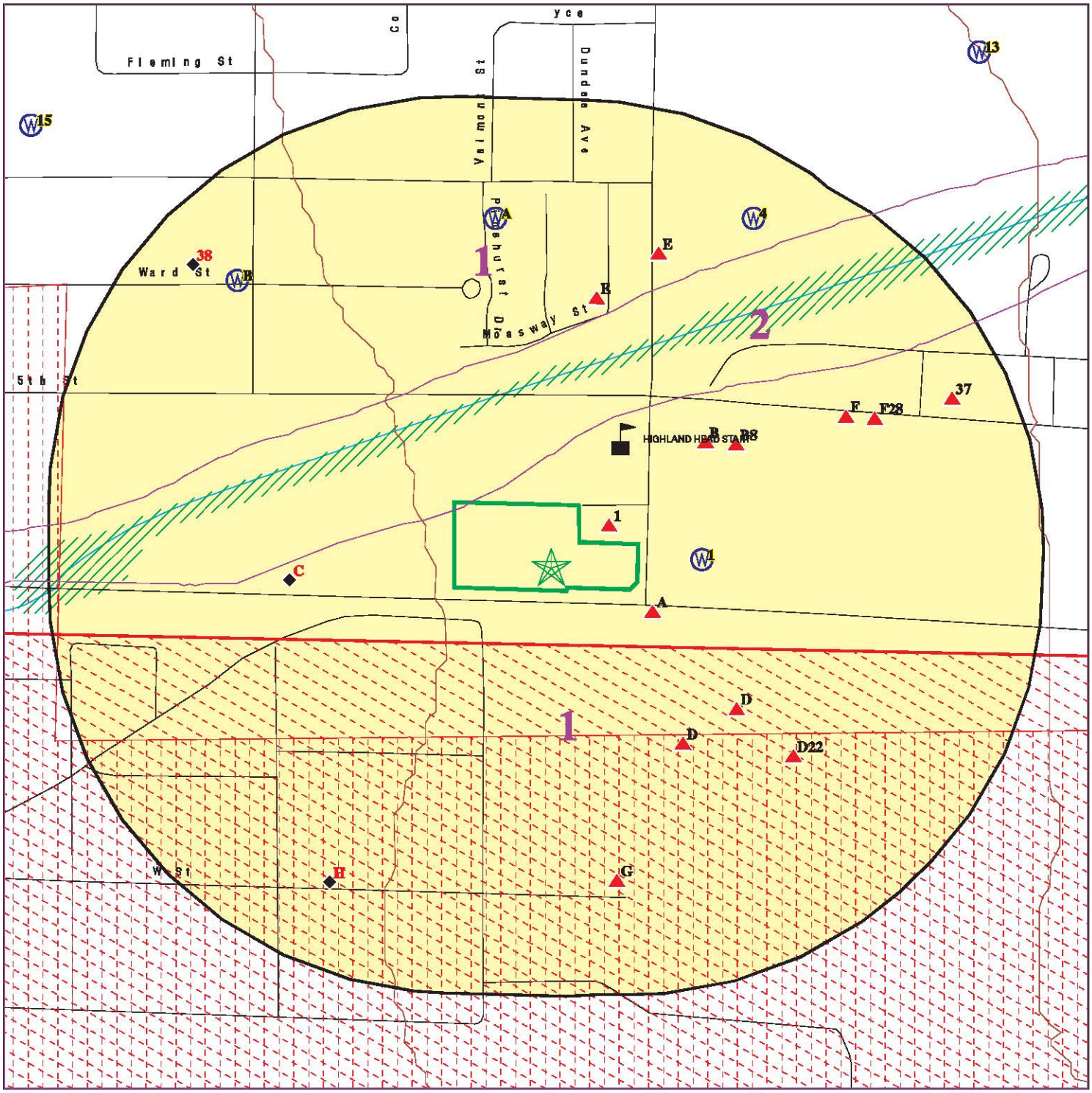
DETAIL MAP - 6657652.2S



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

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	DATE: September 13, 2021 4:27 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		1	0	0	0	NR	1
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		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	3	NR	NR	NR	5
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROLS	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	0	5	NR	5
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	0	0	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA 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
CA UST	0.250		1	1	NR	NR	NR	2
CA AST	0.250		2	2	NR	NR	NR	4
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA 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								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	1	NR	1
CA CERS HAZ WASTE	0.250		4	4	NR	NR	NR	8
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		3	1	NR	NR	NR	4
Local Land Records								
CA LIENS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		6	8	NR	NR	NR	14
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		1	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		1	NR	NR	NR	NR	1
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	1	1	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
CA Cortese	0.500		0	0	0	NR	NR	0
CA 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
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		0	NR	NR	NR	NR	0
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	0	NR	NR	0
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	1	NR	NR	NR	1
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA San Bern. Co. Permit	0.250		8	4	NR	NR	NR	12
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	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		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	35	27	1	12	0	75

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:

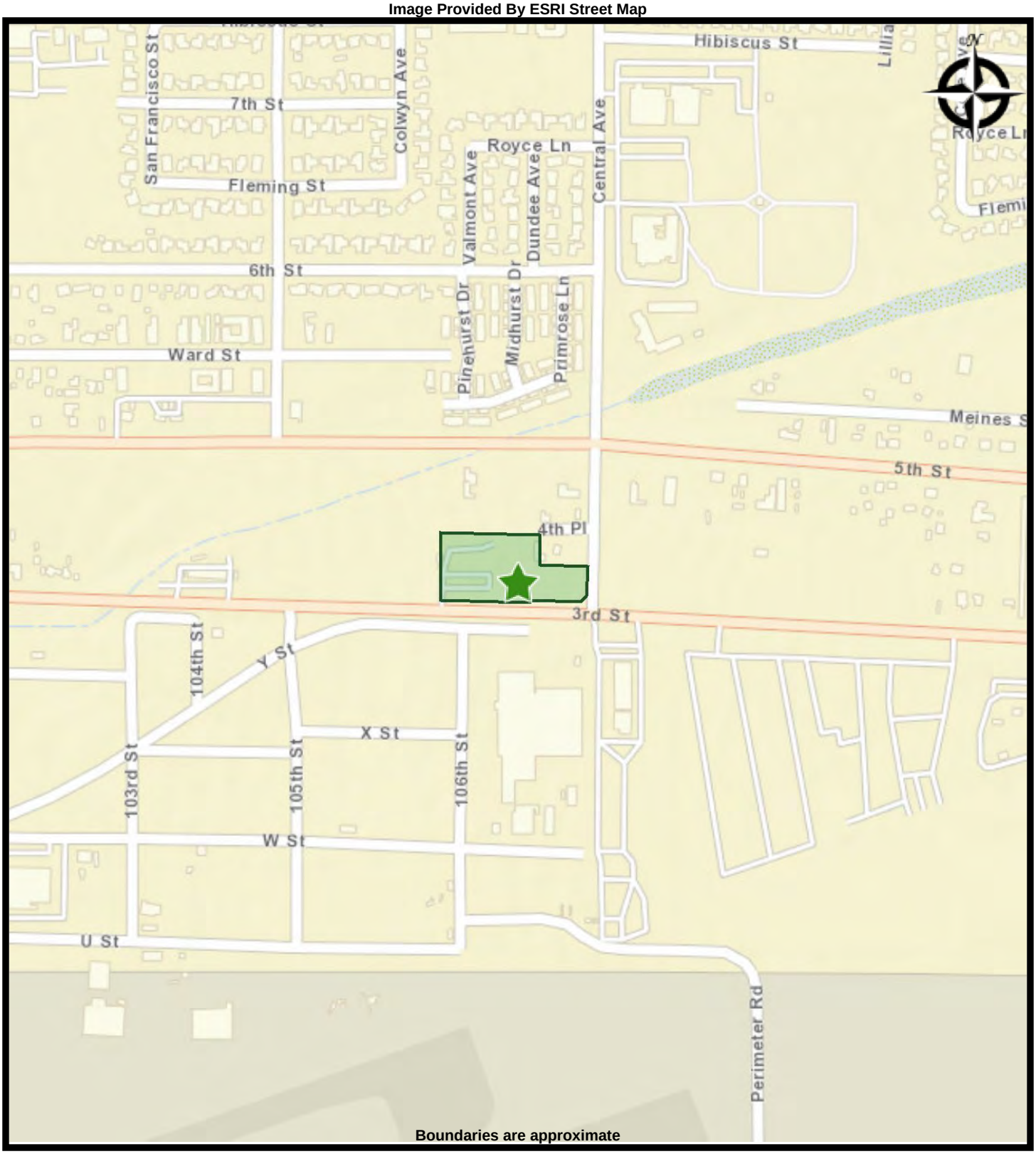
TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

FIGURES

Image Provided By ESRI Street Map



Boundaries are approximate

HMC
HAZARD MANAGEMENT CONSULTING

Figure 1

8082 Central Avenue;
26840, 26854, and 26892 3rd Street; and, Assessor's Parcel Numbers: 119256111, 119256115, 119256116, 119256117, 119256118, 119256119, 119256120, and 119256121
Highland, CA 92346

Image Provided By Hazard Management Consulting

Boundaries are approximate

HMC
HAZARD MANAGEMENT CONSULTING

Figure 2

8082 Central Avenue;
26840, 26854, and 26892 3rd Street; and, Assessor's Parcel Numbers: 119256111, 119256115, 119256116, 119256117, 119256118, 119256119, 119256120, and 119256121
Highland, CA 92346

APPENDIX A

Entrance to Site from 3rd St.

Mobile Office Trailer

Truck Storage and Garage

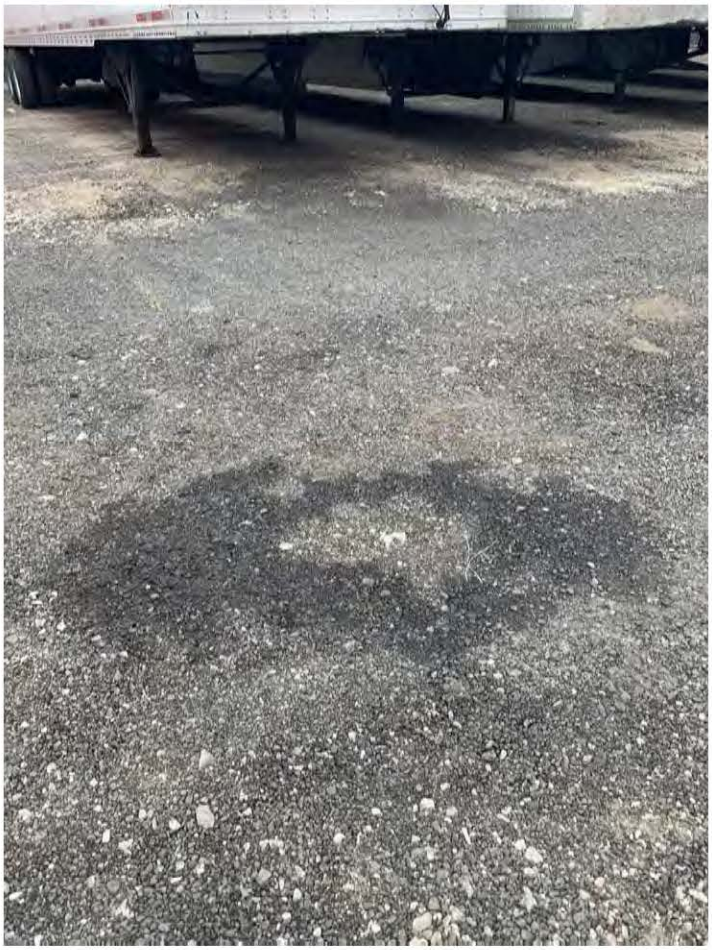
Oil Staining

View SW Across Site

Paving Fabric in Crushed Asphalt

Paving Fabric in Crushed Asphalt

Maintenance Activity



Oil Stain

View W Across Site

Maintenance Activity

View E Across Site

APPENDIX B

26840 3rd St

26840 3rd St

Highland, CA 92346

Inquiry Number: 6657652.3

September 10, 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

09/10/21

Site Name:	Client Name:
26840 3rd St	Hazard Management Consulting
26840 3rd St	211 W. Avenida Cordoba
Highland, CA 92346	San Clemente, CA 92672
EDR Inquiry # 6657652.3	Contact: Troy Taylor

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 4C0B-4444-ADE3

PO # NA

Project Patriot - 3rd & Central

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 #: 4C0B-4444-ADE3

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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26840 3rd St

26840 3rd St

Highland, CA 92346

Inquiry Number: 6657652.4

September 10, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/10/21

Site Name:	Client Name:
26840 3rd St	Hazard Management Consulting
26840 3rd St	211 W. Avenida Cordoba
Highland, CA 92346	San Clemente, CA 92672
EDR Inquiry # 6657652.4	Contact: Troy Taylor

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Hazard Management Consulting were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	NA	**Latitude:**	34.1069 34° 6' 25" North
Project:	Patriot - 3rd & Central	**Longitude:**	-117.218606 -117° 13' 7" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	479837.52
		UTM Y Meters:	3774030.51
		Elevation:	1163.00' above sea level

Maps Provided:

2012	1901
1996	1899
1988	
1980	
1973	
1967	
1954	
1953, 1954	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Redlands
2012
7.5-minute, 24000

Harrison Mountain
2012
7.5-minute, 24000

1996 Source Sheets

Redlands
1996
7.5-minute, 24000
Aerial Photo Revised 1994

Harrison Mountain
1996
7.5-minute, 24000
Aerial Photo Revised 1994

1988 Source Sheets

Redlands
1988
7.5-minute, 24000
Aerial Photo Revised 1985

Harrison Mtn.
1988
7.5-minute, 24000
Aerial Photo Revised 1985

1980 Source Sheets

Harrison Mtn.
1980
7.5-minute, 24000
Aerial Photo Revised 1978

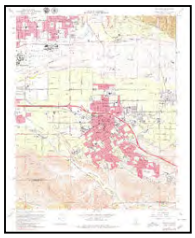
Redlands
1980
7.5-minute, 24000
Aerial Photo Revised 1978

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1973 Source Sheets

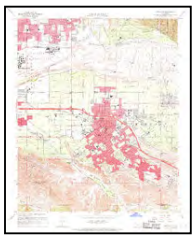
Harrison Mtn
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Redlands
1973
7.5-minute, 24000
Aerial Photo Revised 1973

1967 Source Sheets

Harrison Mtn.
1967
7.5-minute, 24000
Aerial Photo Revised 1966



Redlands
1967
7.5-minute, 24000
Aerial Photo Revised 1966

1954 Source Sheets

Redlands
1954
15-minute, 62500
Aerial Photo Revised 1952

1953, 1954 Source Sheets

Harrison Mtn.
1953
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1901 Source Sheets

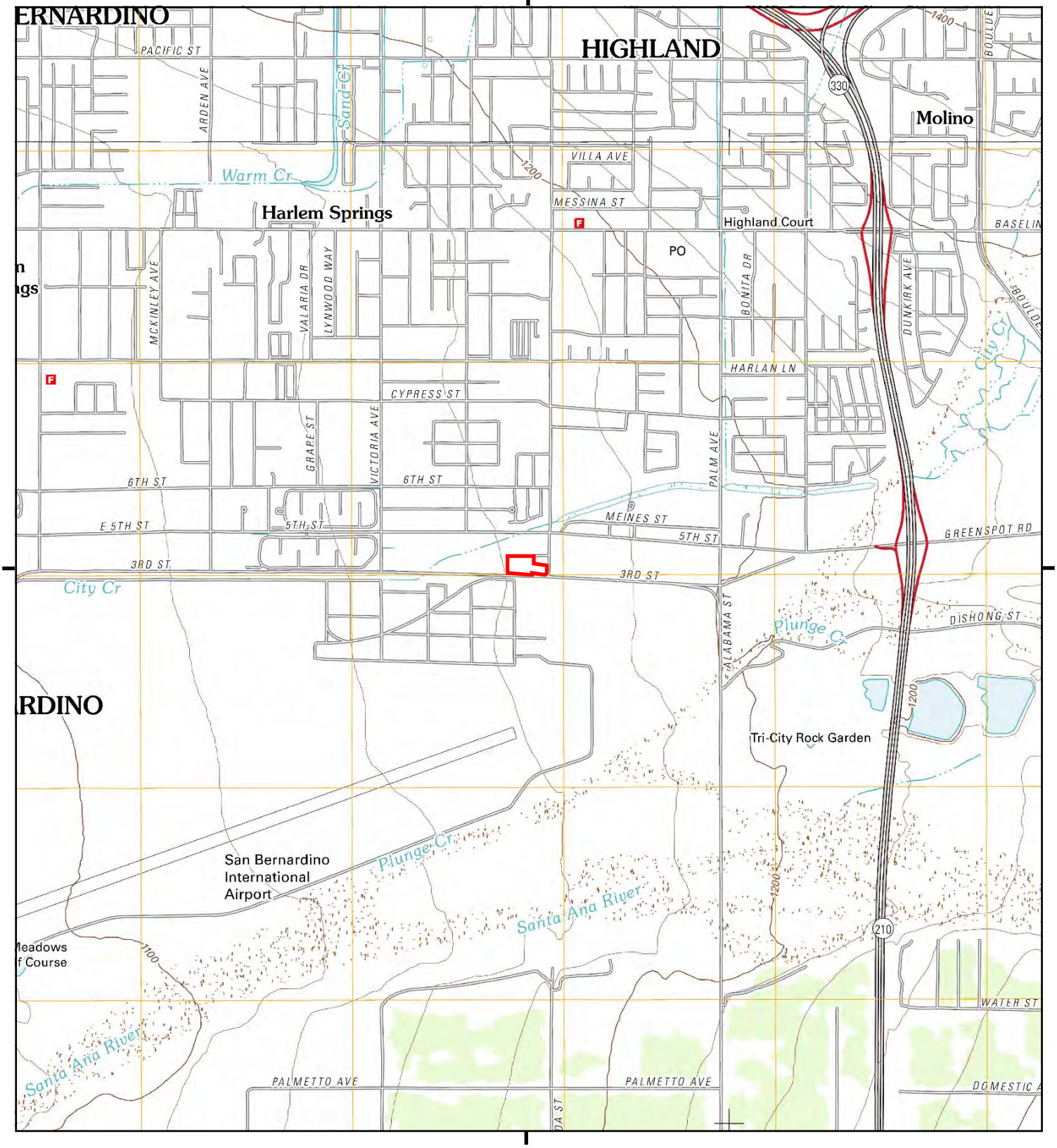
Redlands
1901
15-minute, 62500

1899 Source Sheets

Redlands
1899
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

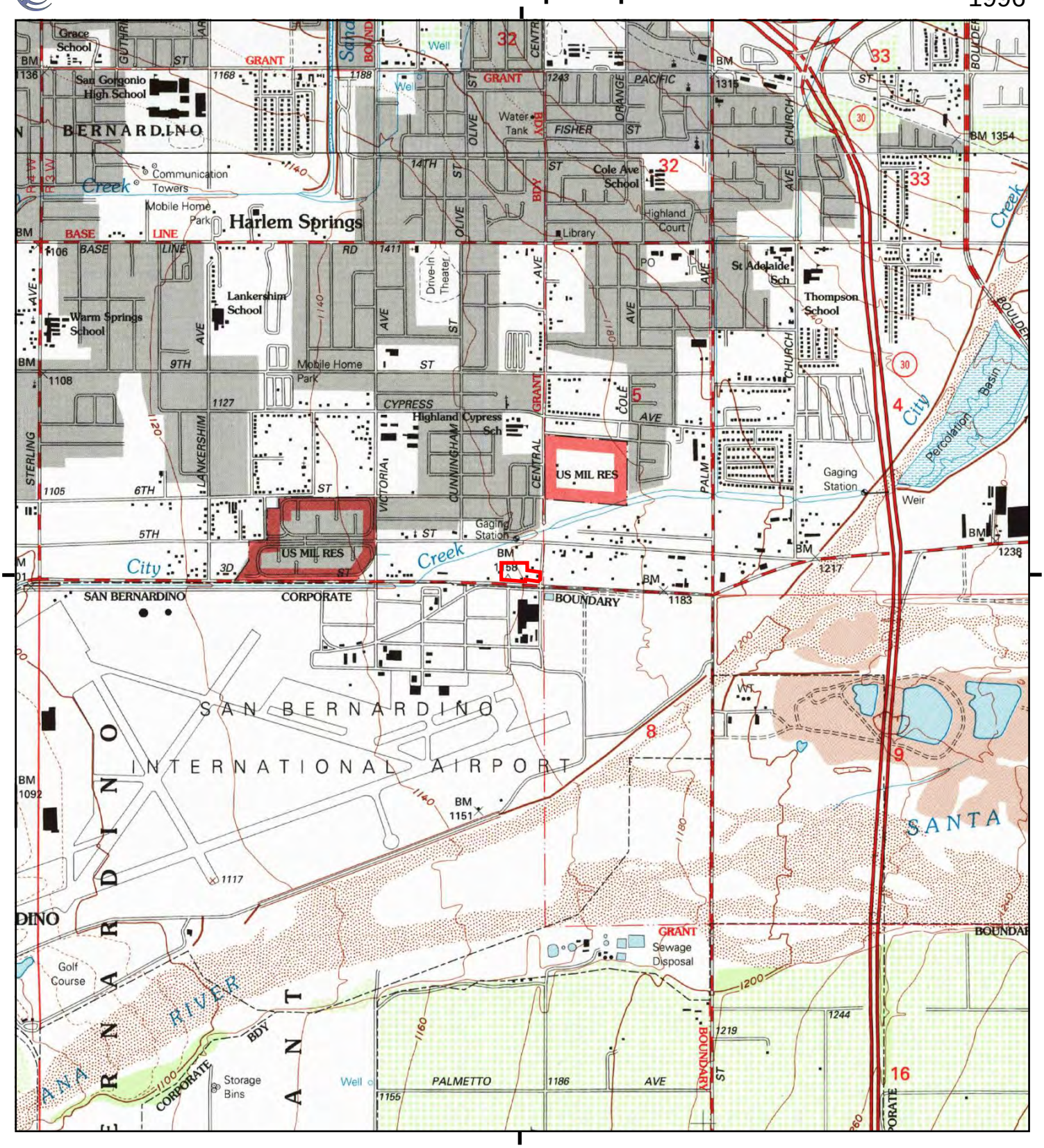
TP, Redlands, 2012, 7.5-minute
N, Harrison Mountain, 2012, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

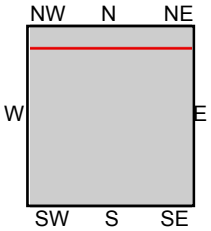
Historical Topo Map

1996



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



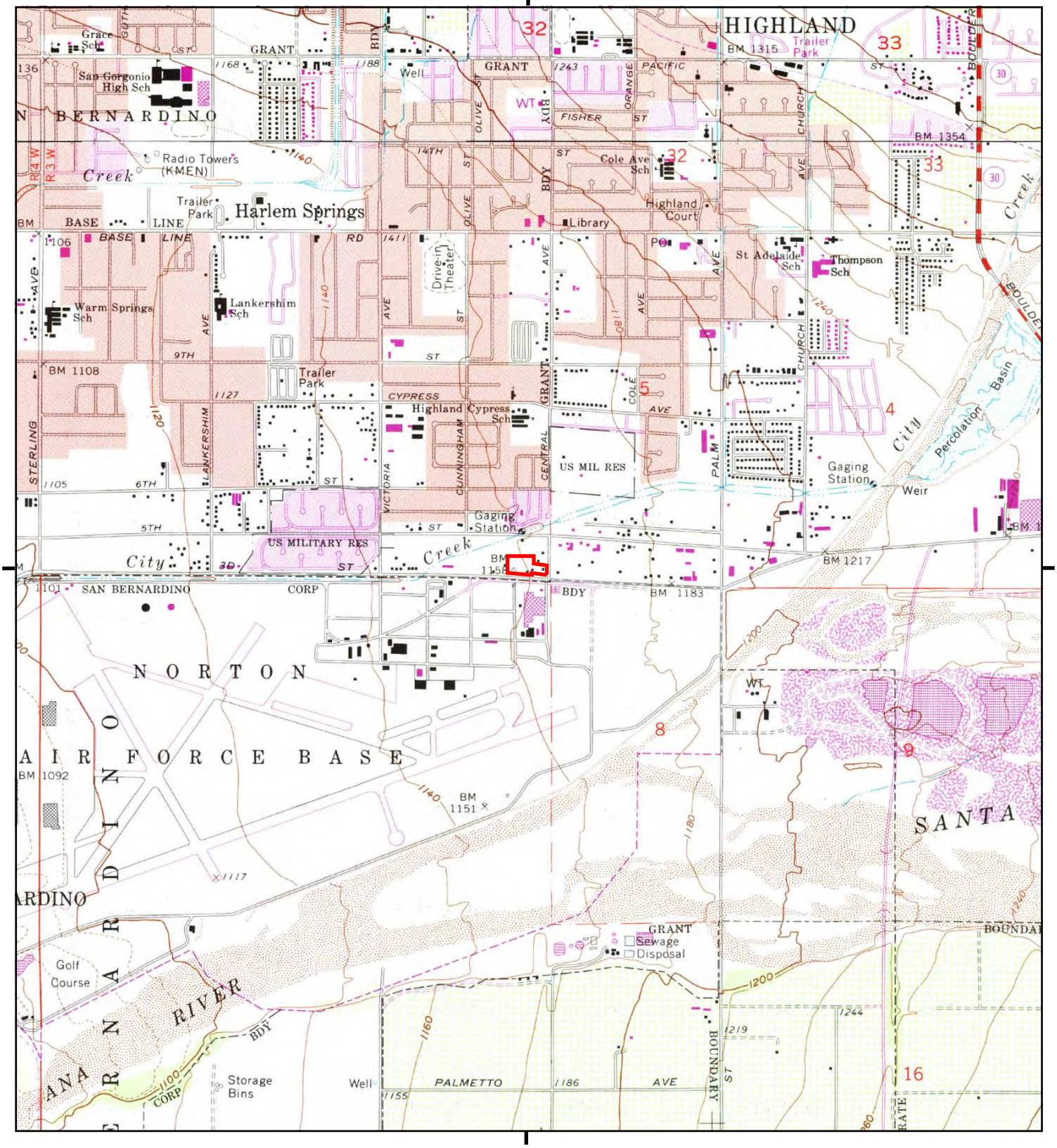
TP, Redlands, 1996, 7.5-minute
N, Harrison Mountain, 1996, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

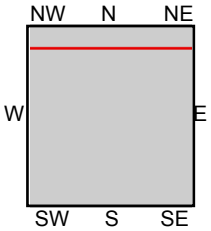
Historical Topo Map

1988



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



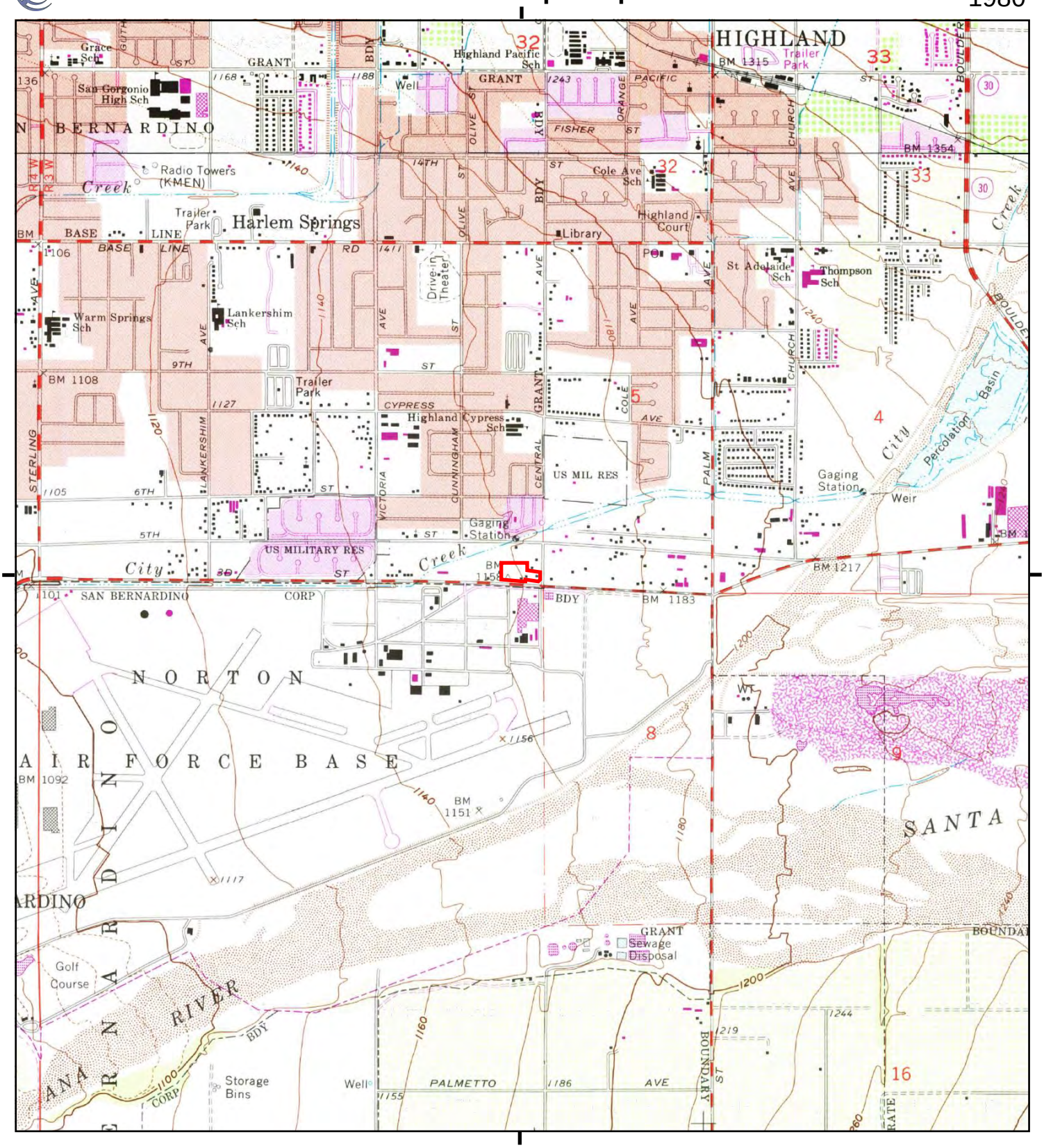
TP, Redlands, 1988, 7.5-minute
N, Harrison Mtn., 1988, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1980



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

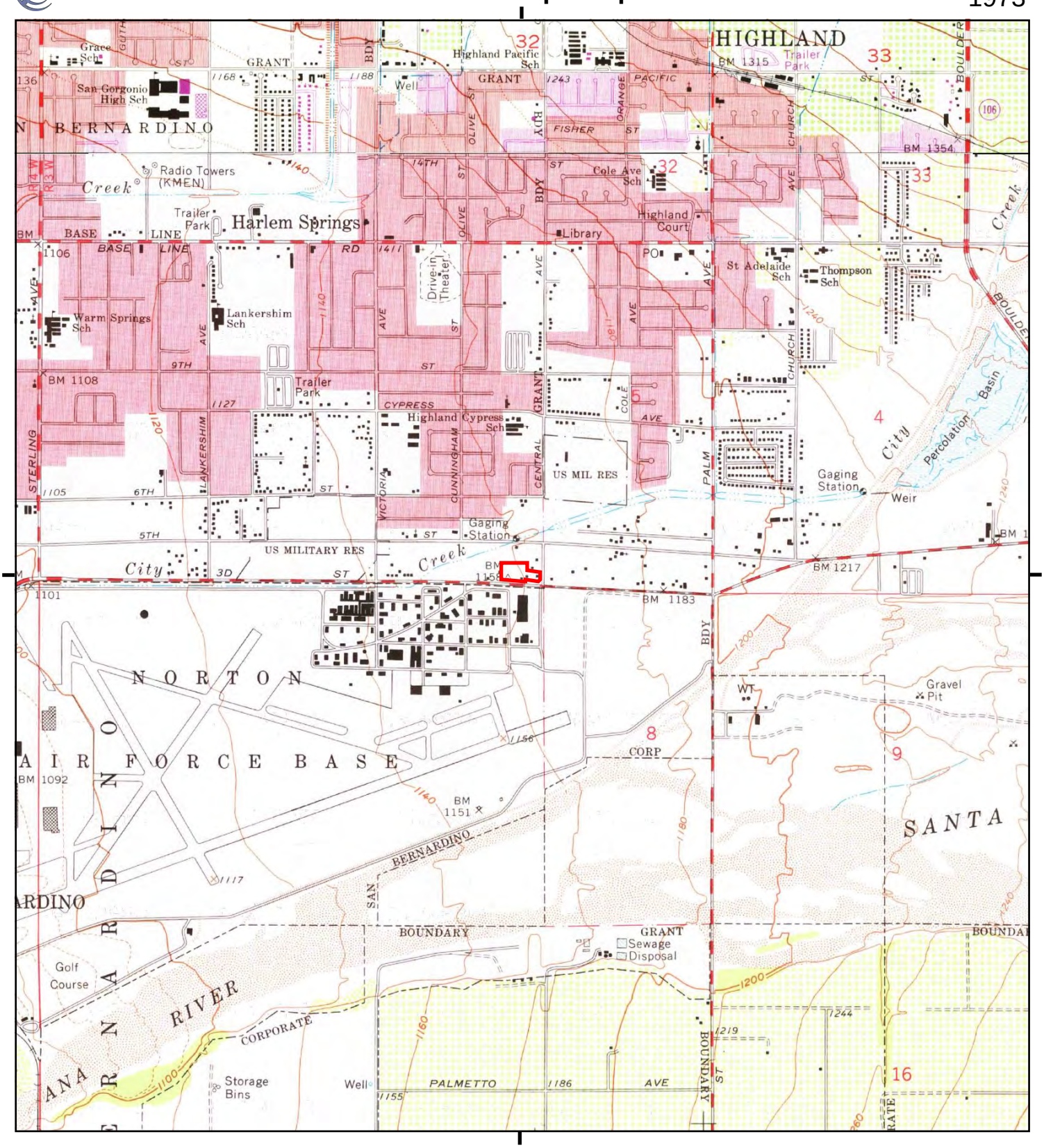
TP, Redlands, 1980, 7.5-minute
N, Harrison Mtn., 1980, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

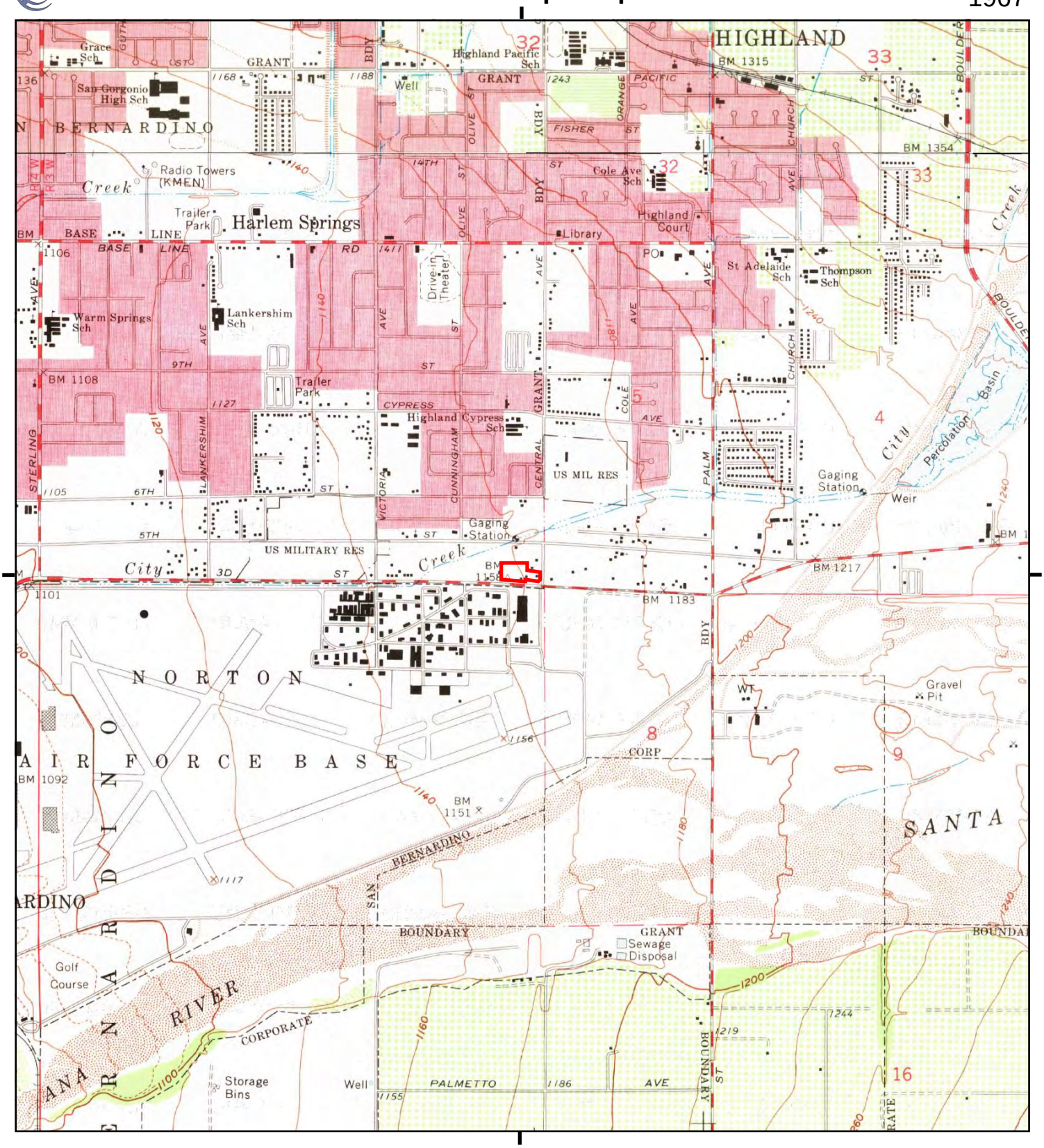
TP, Redlands, 1973, 7.5-minute
N, Harrison Mtn, 1973, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

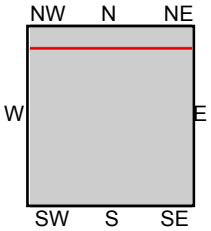
Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



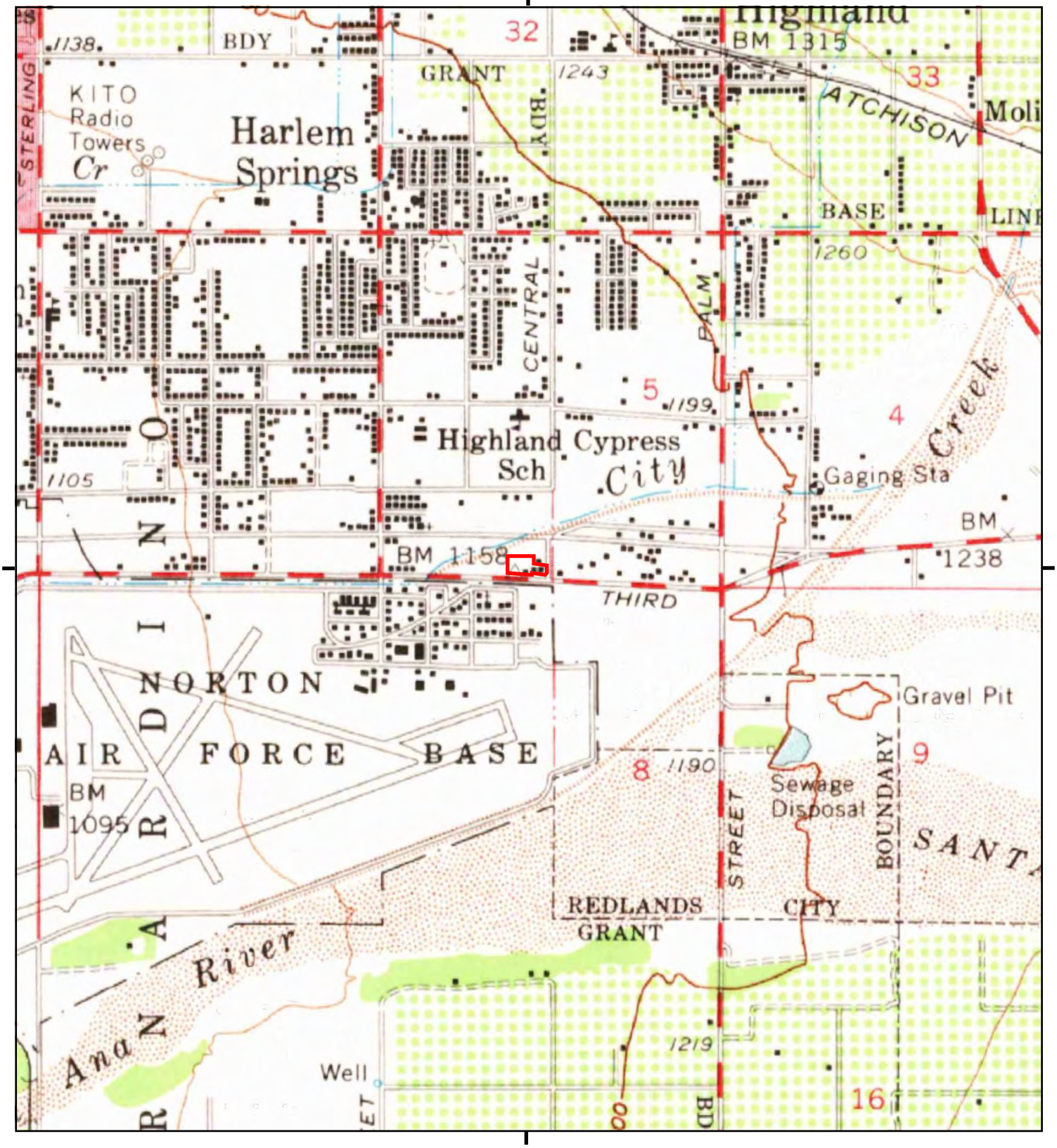
TP, Redlands, 1967, 7.5-minute
N, Harrison Mtn., 1967, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

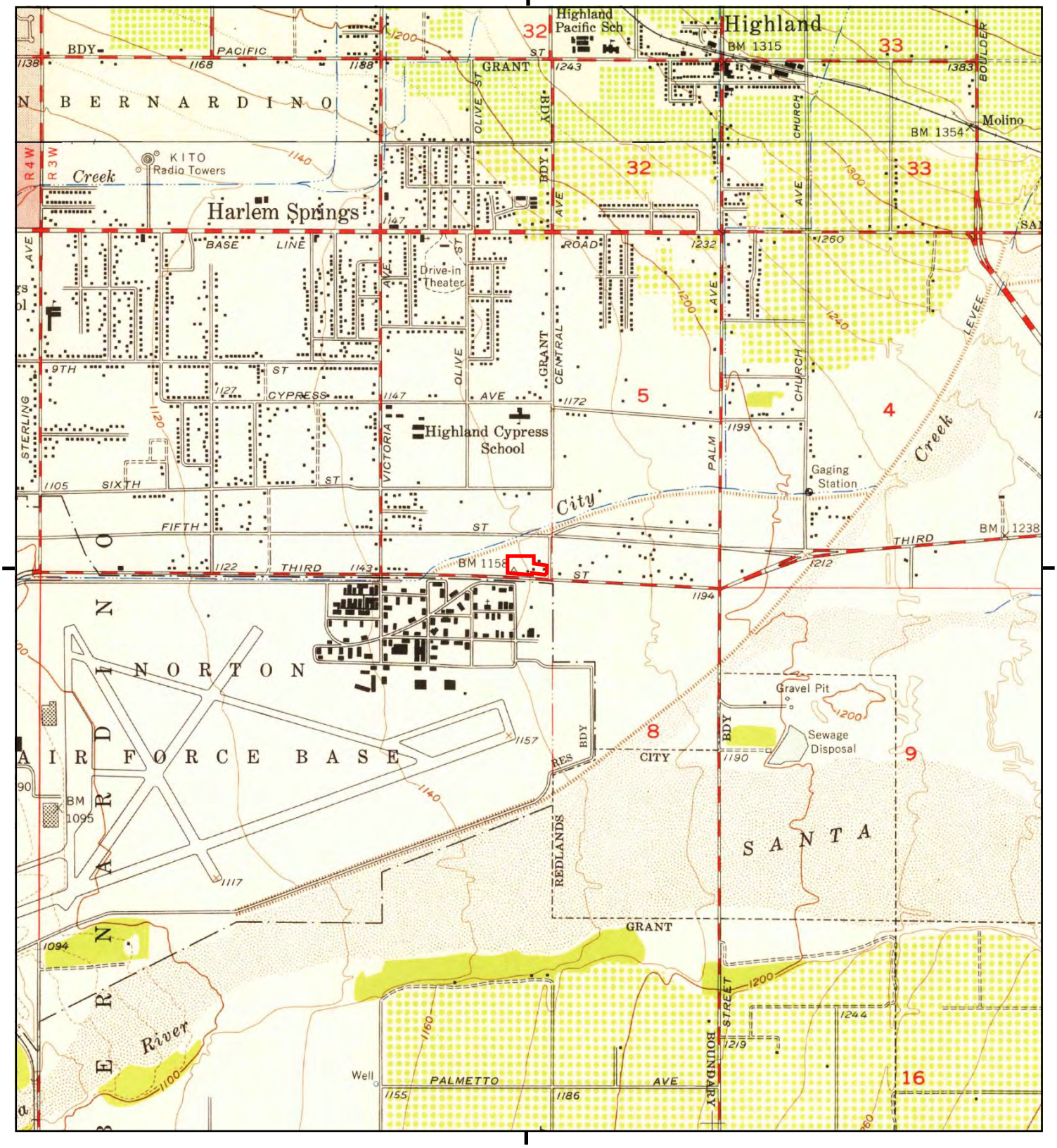
TP, Redlands, 1954, 15-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1953, 1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

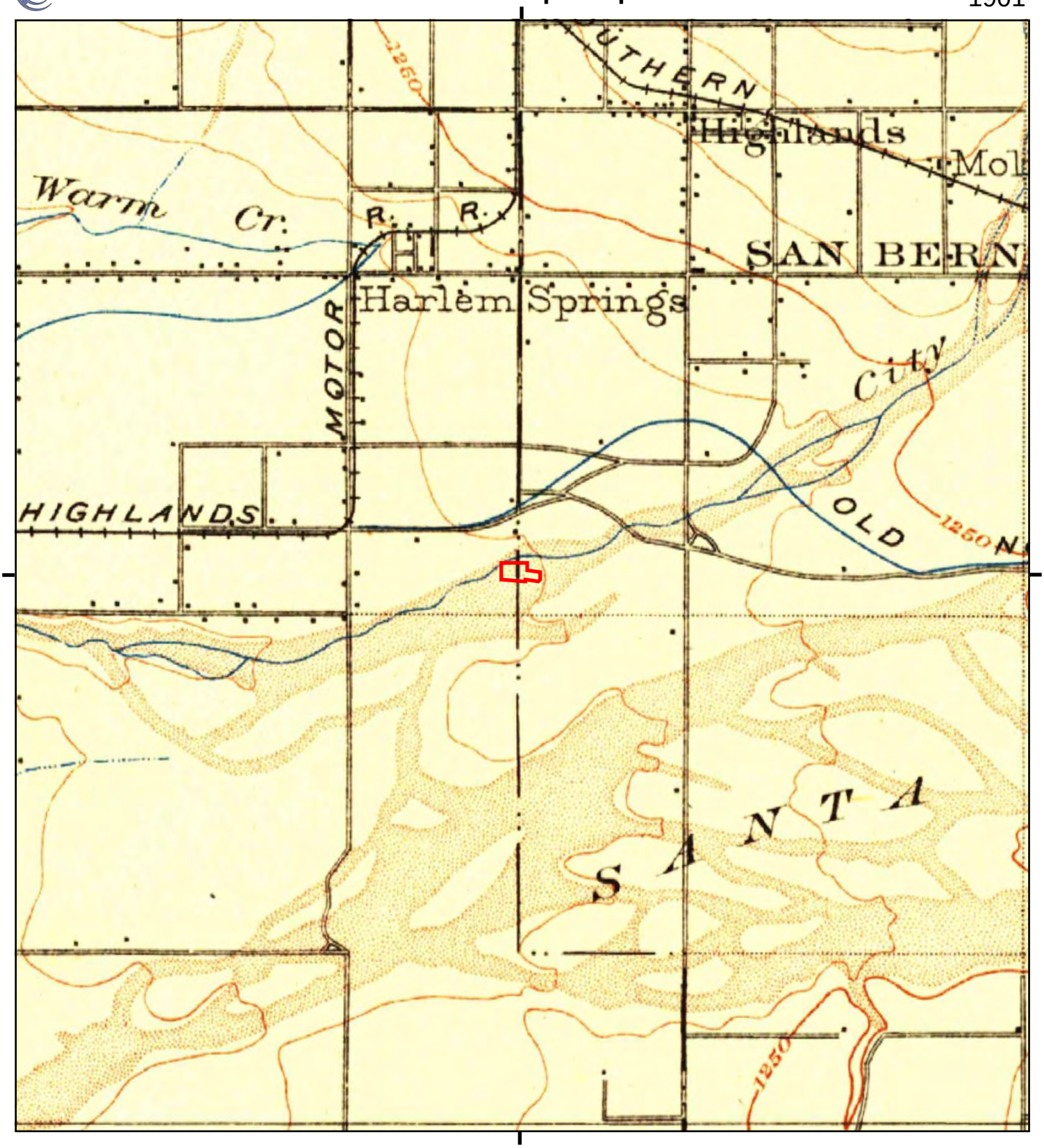
TP, Redlands, 1954, 7.5-minute
N, Harrison Mtn., 1953, 7.5-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1901



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

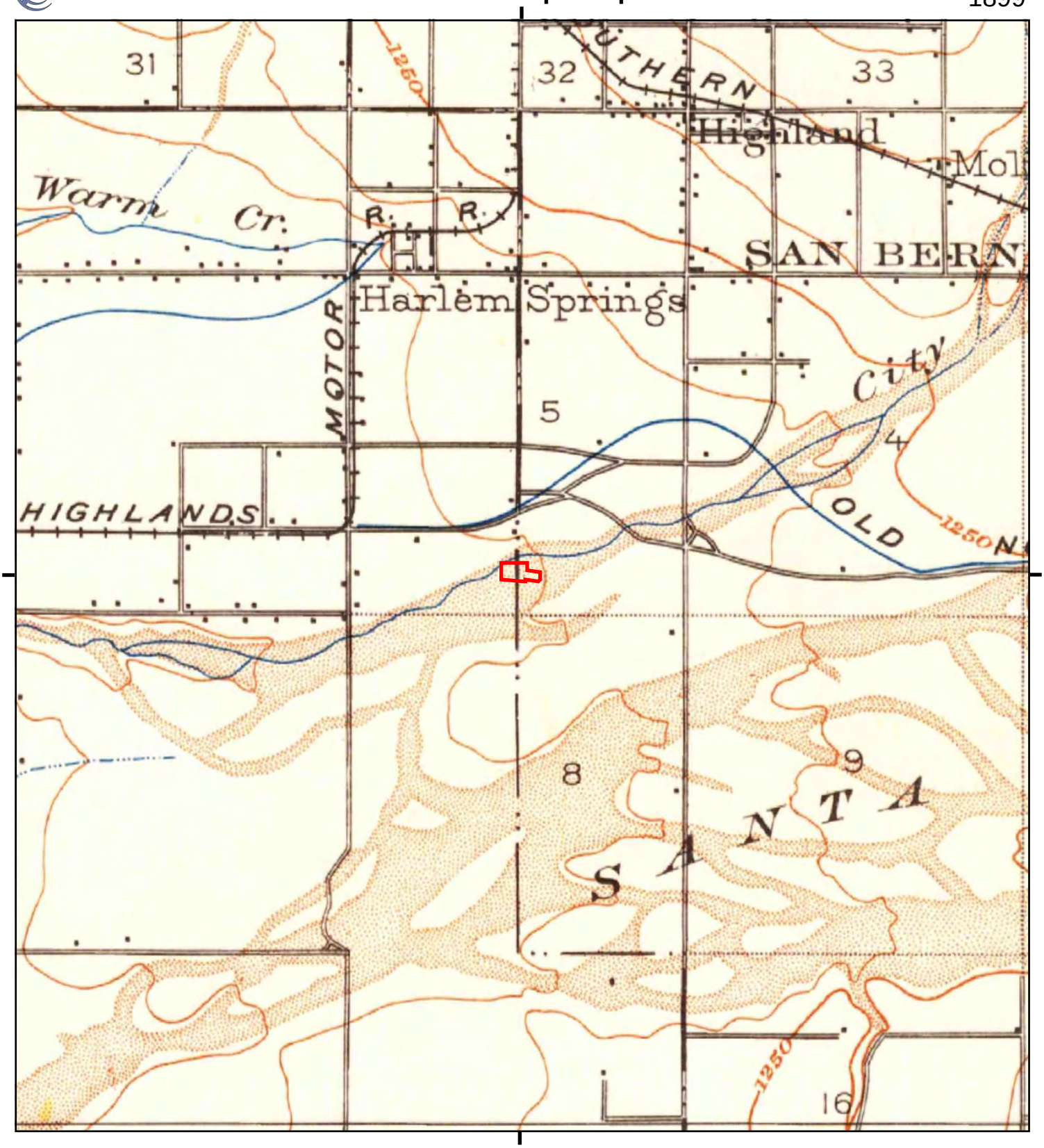
TP, Redlands, 1901, 15-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

Historical Topo Map

1899



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Redlands, 1899, 15-minute

SITE NAME: 26840 3rd St
ADDRESS: 26840 3rd St
Highland, CA 92346
CLIENT: Hazard Management Consulting

N

26840 3rd St

26840 3rd St

Highland, CA 92346

Inquiry Number: 6657652.8

September 10, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/10/21

Site Name:

26840 3rd St
26840 3rd St
Highland, CA 92346
EDR Inquiry # 6657652.8

Client Name:

Hazard Management Consulting
211 W. Avenida Cordoba
San Clemente, CA 92672
Contact: Troy Taylor

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1975	1"=500'	Flight Date: December 01, 1975	USGS
1968	1"=500'	Flight Date: August 22, 1968	USDA
1966	1"=500'	Flight Date: April 20, 1966	USGS
1959	1"=500'	Flight Date: October 16, 1959	USDA
1953	1"=500'	Flight Date: January 15, 1953	USDA
1949	1"=500'	Flight Date: May 08, 1949	USDA
1938	1"=500'	Flight Date: July 04, 1938	USDA
1930	1"=500'	Flight Date: March 25, 1930	FAIR

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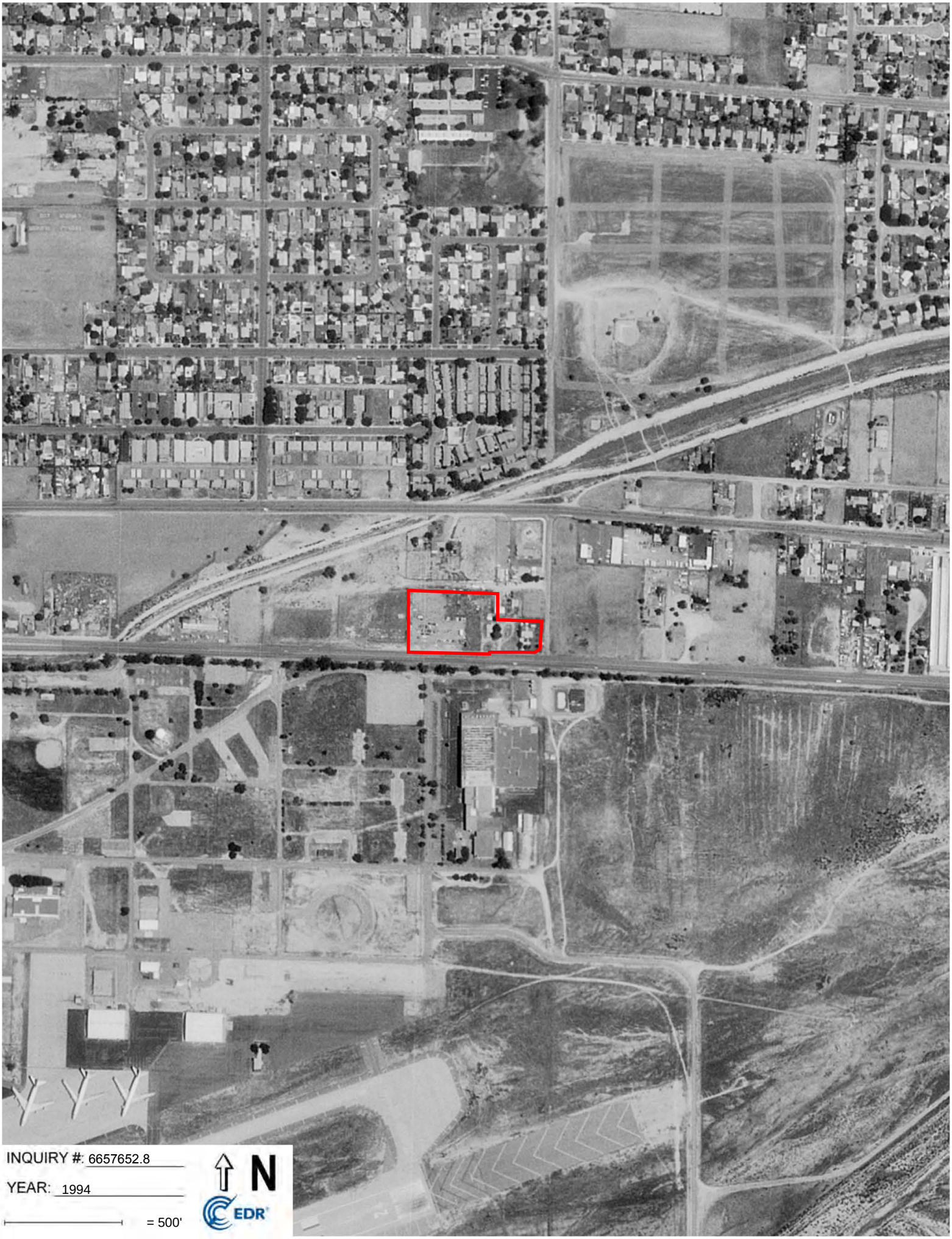
INQUIRY #: 6657652.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6657652.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 6657652.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6657652.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 6657652.8
YEAR: 2002
= 500'
N
EDR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YEAR: 1994
= 500'
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EDR

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YEAR: 1989
= 500'
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EDR

INQUIRY #: 6657652.8
YEAR: 1985
= 500'
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EDR

INQUIRY #: 6657652.8
YEAR: 1975
= 500'
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EDR

INQUIRY #: 6657652.8
YEAR: 1968
= 500'
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EDR

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YEAR: 1966
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EDR

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YEAR: 1959
= 500'
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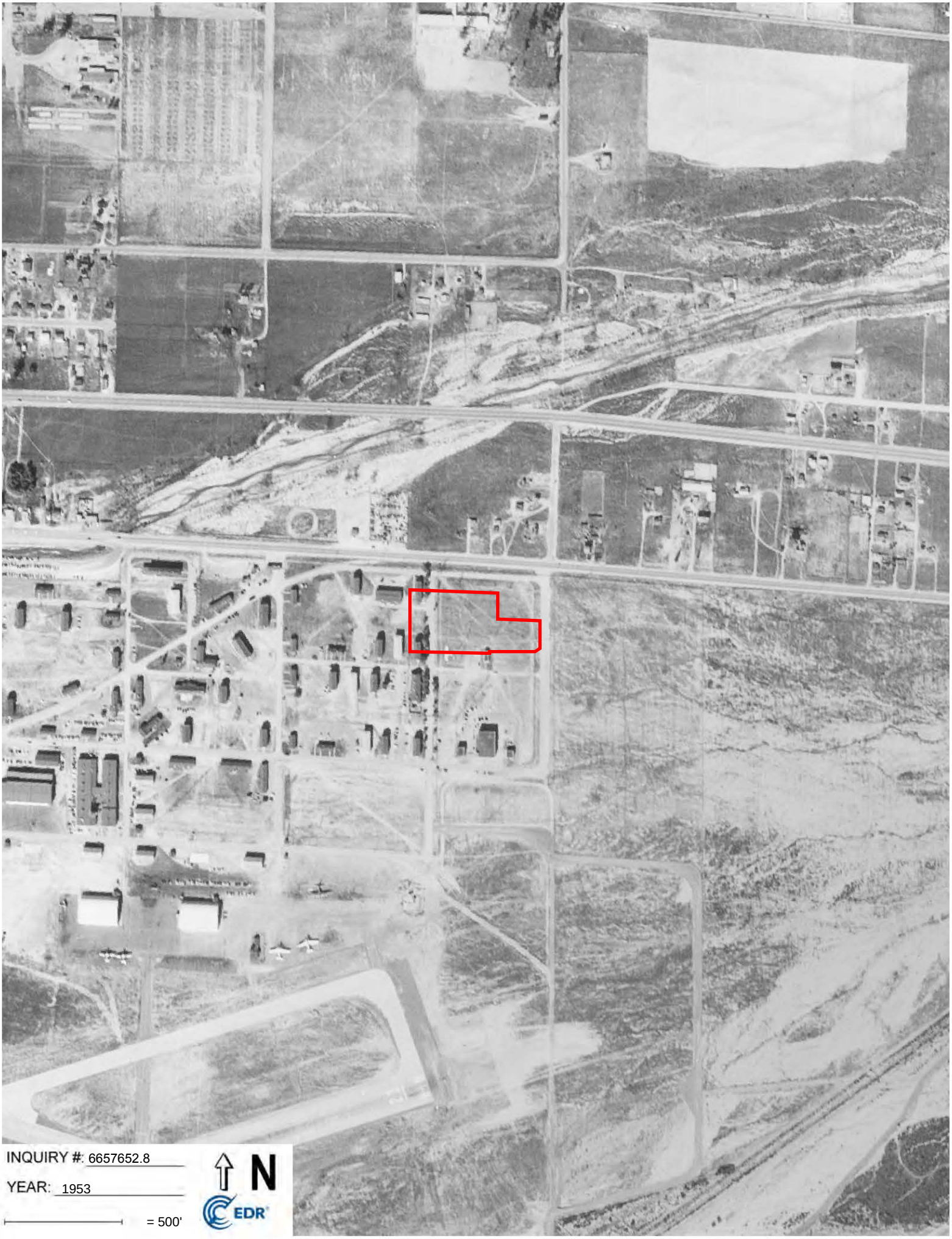
EDR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YEAR: 1953
= 500'
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EDR

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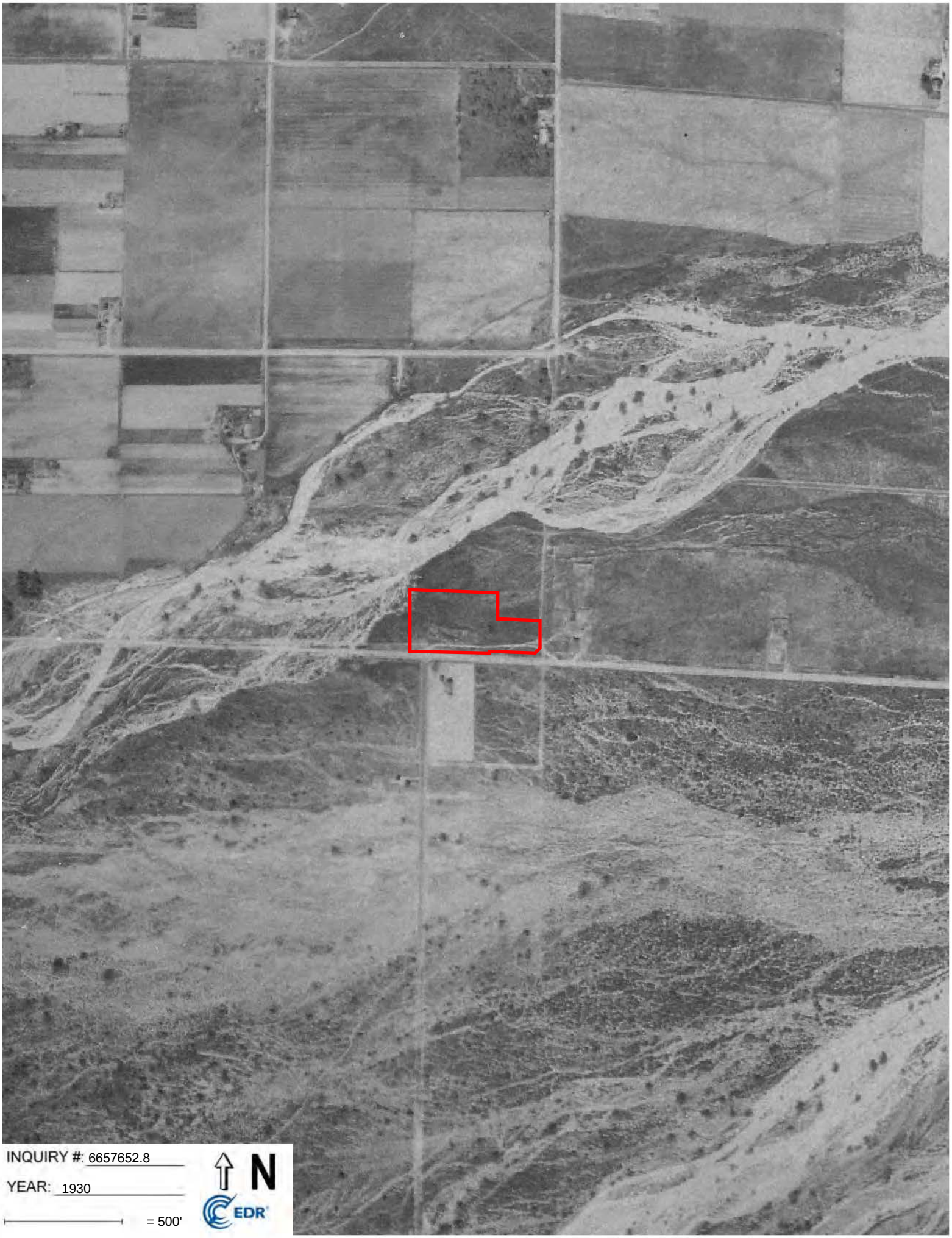
YEAR: 1949
= 500'
N
EDR

INQUIRY #: 6657652.8
YEAR: 1938
= 500'
N
EDR


INQUIRY #: 6657652.8
YEAR: 1930
= 500'
N
EDR

26840 3rd St
26840 3rd St
Highland, CA 92346

Inquiry Number: 6657652.2s
September 13, 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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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

26840 3RD ST
HIGHLAND, CA 92346

COORDINATES

Latitude (North):	34.1069000 - 34˚ 6' 24.84''
Longitude (West):	117.2186060 - 117˚ 13' 6.98''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	479837.1
UTM Y (Meters):	3773835.8
Elevation:	1163 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630631 REDLANDS, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
26840 3RD ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	NORTON AIR FORCE BAS		DOD	Same	471, 0.089, South
Reg	USAF NORTON AFB	305 S TIPPECANOE AVE	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG, US ENG..	Same	176, 0.033, South
1	JOSE HUIZAR	26875 4TH PL	RCRA NonGen / NLR	Higher	59, 0.011, NE
A2	NATIONAL TECHNICAL S	3505 E THIRD ST	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA San...	Higher	103, 0.020, ESE
A3	WYLE LABS SBO EAST D	3505 E 3RD ST	RCRA-SQG	Higher	103, 0.020, ESE
A4	NATIONAL TECHNICAL S	3505 E THIRD ST	RCRA NonGen / NLR	Higher	103, 0.020, ESE
A5	WYLE LABS EAST TEST	3505 E 3RD ST	CA San Bern. Co. Permit	Higher	103, 0.020, ESE
B6	SANCHEZ AUTOMOTIVE S	26967 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	400, 0.076, NE
B7	S&S MOTORS INC (DBA)	26967 5TH ST	RCRA NonGen / NLR	Higher	400, 0.076, NE
B8	ELITE LAWN & LANDSCA	26975 5TH ST	CA San Bern. Co. Permit	Higher	456, 0.086, ENE
C9	CANDY'S	26698 3RD ST	CA San Bern. Co. Permit	Lower	482, 0.091, West
D10	NORTON AIR FORCE BAS	106TH ST	CA CERS TANKS	Higher	522, 0.099, SE
D11	NORTON AIR FORCE BAS	106TH ST	CA UST	Higher	522, 0.099, SE
D12	MATICH CORPORATION	3231 E 3RD ST	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA San...	Higher	530, 0.100, SE
D13	MATICH CORP	3231 E 3RD ST	RCRA NonGen / NLR	Higher	530, 0.100, SE
C14	NOBLE METAL LAB	26672 3RD ST	CA San Bern. Co. Permit	Lower	534, 0.101, West
C15	NOBLE METAL LABS INC	26672 3RD ST	RCRA NonGen / NLR	Lower	534, 0.101, West
C16	NOBLE METAL LAB INC	26672 THIRD ST	RCRA NonGen / NLR	Lower	534, 0.101, West
C17	JC'S AUTO REPAIR	26670 3RD ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	537, 0.102, West
E18	DEYANIRA REQUENES	26880 MOSSWAY ST	RCRA NonGen / NLR	Higher	678, 0.128, North
E19	DEYANIRA REQUENES	26880 MOSSWAY ST	RCRA NonGen / NLR	Higher	678, 0.128, North
F20	MEYER CONSTRUCTORS	26999 5TH ST	CA HIST UST	Higher	726, 0.138, ENE
F21	MAYFLOWER CONTRACT S	26999 5TH ST	CA HIST UST, CA NPDES, CA CIWQS	Higher	726, 0.138, ENE
D22	NORTON AFB LANDFILL	I-10/US 395 FORMER N	CA SWF/LF, CA CERS	Higher	760, 0.144, SE
F23	EJ MEYER	26999 E 5TH STREET	RCRA NonGen / NLR	Higher	795, 0.151, ENE
F24	MAYFLOWER CONTRACT S	26999 E 5TH STREET	RCRA-SQG, FINDS, ECHO	Higher	795, 0.151, ENE
F25	E.J. MEYER COMPANY	26999 E 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	795, 0.151, ENE
E26	CITY OF HIGHLAND-OPE	7935 CENTRAL	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	862, 0.163, NNE
E27	CITY OF HIGHLAND OPE	7935 CENTRAL AVE	RCRA NonGen / NLR	Higher	862, 0.163, NNE
F28	CSR AIR CONDITIONING	27015 E 5TH ST	RCRA NonGen / NLR	Higher	873, 0.165, ENE
G29	NORTON AIR FORCE BAS	W STREET	CA UST	Higher	948, 0.180, SSE
G30	NORTON AIR FORCE BAS	W STREET	CA CERS TANKS	Higher	948, 0.180, SSE
H31	COUNTY FIRE-HHW PROG	2824 E W ST	CA AST, CA CERS HAZ WASTE, CA MWMP, CA San Bern....	Lower	1042, 0.197, SW
H32	SAN BERNARDINO CTY F	2824 E W ST BLDG 302	RCRA NonGen / NLR	Lower	1042, 0.197, SW
H33	RICHARD SEWELL TRAIN	2824 E W ST BLDG 302	CA AST, CA San Bern. Co. Permit, CA CERS	Lower	1042, 0.197, SW
H34	SBCO FIRE HAZ WASTE	2824 E W ST	CA CERS HAZ WASTE, CA CERS	Lower	1042, 0.197, SW
H35	SAN BERNARDINO COUNT	2824 E W ST	RCRA-SQG, FINDS, ECHO	Lower	1042, 0.197, SW
H36	SAN BERNARDINO COUNT	2824 E W ST	RCRA NonGen / NLR	Lower	1042, 0.197, SW
37	PENSKE	27056 5TH ST	RCRA NonGen / NLR	Higher	1128, 0.214, ENE

MAPPED SITES SUMMARY

Target Property Address:
26840 3RD ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
38	HOME SAVINGS OF AMER	26674 WARD ST	RCRA-SQG	Lower	1150, 0.218, NW
39	FORMER SKEET RANGE N		UXO	Higher	2059, 0.390, SSE
I40	SAFETY-KLEEN SYSTEMS	7979 PALM AVE #E	CA ENVIROSTOR	Higher	2828, 0.536, East
I41	SAFETY-KLLEEN	7979 PALM AVE.	CA LUST, CA CERS HAZ WASTE, CA SWEEPS UST, CA HIST.	Higher	2828, 0.536, East
I42	SAFETY-KLEEN SYSTEMS	7979 PALM AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Higher	2828, 0.536, East
43	FORMER SKEET RANGE N		UXO	Lower	3431, 0.650, SSW
J44	NORTON AIR FORCE BAS	NORTON AIR FORCE BAS	CA BOND EXP. PLAN	Lower	3463, 0.656, SW
J45	NORTON A F B BLDG 62	D ST	CA LUST, CA Toxic Pits, CA HIST CORTESE	Lower	3463, 0.656, SW
J46	NORTON AIR FORCE BAS	2,208 ACRES;58 MI EA	CA ENVIROSTOR, CA HIST Cal-Sites, CA DEED	Lower	3463, 0.656, SW
K47	AAC SUPPLY DEPOT		CA ENVIROSTOR	Lower	4797, 0.909, WSW
K48	NORTON COMM FAC		CA ENVIROSTOR	Lower	4828, 0.914, WSW
K49	NORTON COMMUNICATION		FUDS	Lower	4829, 0.915, WSW
50	CYPRESS II ELEMENTAR	BASELINE/SOUTH ALLEN	CA ENVIROSTOR, CA SCH	Higher	4890, 0.926, North

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

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

Federal RCRA generators list

RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE ..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
CA CPS-SLIC ..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing

EXECUTIVE SUMMARY

INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

CA VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA 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

CA WMUDS/SWAT ..... Waste Management Unit Database
CA SWRCY ..... Recycler Database
CA 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
CA CDL ..... Clandestine Drug Labs
US CDL ..... National Clandestine Laboratory Register
CA PFAS ..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CA FID UST ..... Facility Inventory Database

Local Land Records

CA LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CA LDS ..... Land Disposal Sites Listing
CA MCS ..... Military Cleanup Sites Listing
CA SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
EPA WATCH LIST ..... EPA WATCH LIST

EXECUTIVE SUMMARY

TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
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
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA Cortese	"Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings	CUPA Resources List
CA DRYCLEANERS	Cleaner Facilities
CA EMI	Emissions Inventory Data
CA ENF	Enforcement Action Listing
CA Financial Assurance	Financial Assurance Information Listing
CA HAZNET	Facility and Manifest Data
CA ICE	ICE
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA PROC	Certified Processors Database
CA Notify 65	Proposition 65 Records
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA WIP	Well Investigation Program Case List
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing
CA NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
CA OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List
CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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 NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Cerclis ID:: 902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

Federal CERCLIS list

SEMS: 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.

A review of the SEMS list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 SEMS

site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Site ID: 0902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/22/2021 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***E 1/2 - 1 (0.536 mi.)***	***I42***	***250***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

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 03/22/2021 has revealed that there are 5

RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***
WYLE LABS SBO EAST D EPA ID:: CAR000169649	3505 E 3RD ST	ESE 0 - 1/8 (0.020 mi.)	A3	102
MAYFLOWER CONTRACT S EPA ID:: CAD982433757	***26999 E 5TH STREET***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F24***	***161***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SAN BERNARDINO COUNT EPA ID:: CAR000073072	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H35***	***196***
HOME SAVINGS OF AMER EPA ID:: CAP000043778	26674 WARD ST	NW 1/8 - 1/4 (0.218 mi.)	38	204

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345 EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

US INST CONTROLS: 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.

A review of the US INST CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

State- and tribal - equivalent CERCLIS

CA 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 CA ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are 5 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS Facility Id: 80001784 Status: No Further Action	7979 PALM AVE #E	E 1/2 - 1 (0.536 mi.)	I40	207
CYPRESS II ELEMENTAR Facility Id: 60000047 Status: Inactive - Withdrawn	***BASELINE/SOUTH ALLEN***	***N 1/2 - 1 (0.926 mi.)***	***50***	***470***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS Facility Id: 36970004 Status: Active	***2,208 ACRES;58 MI EA***	***SW 1/2 - 1 (0.656 mi.)***	***J46***	***381***
AAC SUPPLY DEPOT Facility Id: 80000878 Status: Inactive - Needs Evaluation		WSW 1/2 - 1 (0.909 mi.)	K47	467
NORTON COMM FAC Facility Id: 80001185 Status: Inactive - Needs Evaluation		WSW 1/2 - 1 (0.914 mi.)	K48	469

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AFB LANDFILL Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021 Facility ID: 36-AA-0312 Operational Status: Closed Regulation Status: Unpermitted	***I-10/US 395 FORMER N***	***SE 1/8 - 1/4 (0.144 mi.)***	***D22***	***157***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

CA 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 CA UST list, as provided by EDR, has revealed that there are 2 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	106TH ST	SE 0 - 1/8 (0.099 mi.)	D11	122
Database: MILITARY UST SITES, Date of Government Version: 03/08/2021				
NORTON AIR FORCE BAS	W STREET	SSE 1/8 - 1/4 (0.180 mi.)	G29	178
Database: MILITARY UST SITES, Date of Government Version: 03/08/2021				

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there are 4 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***96***
Database: AST, Date of Government Version: 07/06/2016				
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***122***
Database: AST, Date of Government Version: 07/06/2016				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COUNTY FIRE-HHW PROG	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***179***
Database: AST, Date of Government Version: 07/06/2016				
RICHARD SEWELL TRAIN	***2824 E W ST BLDG 302***	***SW 1/8 - 1/4 (0.197 mi.)***	***H33***	***189***
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 CA HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	***2,208 ACRES;58 MI EA***	***SW 1/2 - 1 (0.656 mi.)***	***J46***	***381***

EXECUTIVE SUMMARY

CA Toxic Pits: The Toxic Pits Cleanup Act Sites database identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. The data come from the State Water Resources Control Board.

A review of the CA Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 CA Toxic Pits site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON A F B BLDG 62 Closure Date: / / Task #: 68009 Status: CLOSED	***D ST***	***SW 1/2 - 1 (0.656 mi.)***	***J45***	***380***

CA 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 CA CERS HAZ WASTE list, as provided by EDR, and dated 01/20/2021 has revealed that there are 8 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***96***
SANCHEZ AUTOMOTIVE S	***26967 5TH ST***	***NE 0 - 1/8 (0.076 mi.)***	***B6***	***109***
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***122***
E.J. MEYER COMPANY	***26999 E 5TH ST***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F25***	***164***
CITY OF HIGHLAND-OPE	***7935 CENTRAL***	***NNE 1/8 - 1/4 (0.163 mi.)***	***E26***	***169***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JC'S AUTO REPAIR	***26670 3RD ST***	***W 0 - 1/8 (0.102 mi.)***	***C17***	***142***
COUNTY FIRE-HHW PROG	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***179***
SBCO FIRE HAZ WASTE	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H34***	***194***

Local Lists of Registered Storage Tanks

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEYER CONSTRUCTORS Facility Id: 00000059681	26999 5TH ST	ENE 1/8 - 1/4 (0.138 mi.)	F20	153
MAYFLOWER CONTRACT S	***26999 5TH ST***	***ENE 1/8 - 1/4 (0.138 mi.)***	***F21***	***154***

EXECUTIVE SUMMARY

CA 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 CA CERS TANKS list, as provided by EDR, and dated 01/20/2021 has revealed that there are 4 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***96***
NORTON AIR FORCE BAS	106TH ST	SE 0 - 1/8 (0.099 mi.)	D10	121
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***122***
NORTON AIR FORCE BAS	W STREET	SSE 1/8 - 1/4 (0.180 mi.)	G30	178

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 03/22/2021 has revealed that there are 14 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSE HUIZAR EPA ID:: CAC003035088	26875 4TH PL	NE 0 - 1/8 (0.011 mi.)	1	93
NATIONAL TECHNICAL S EPA ID:: CAL000398078	3505 E THIRD ST	ESE 0 - 1/8 (0.020 mi.)	A4	105
S&S MOTORS INC (DBA)	26967 5TH ST	NE 0 - 1/8 (0.076 mi.)	B7	118
MATICH CORP EPA ID:: CAL000314877	3231 E 3RD ST	SE 0 - 1/8 (0.100 mi.)	D13	133
DEYANIRA REQUENES EPA ID:: CAC003018813	26880 MOSSWAY ST	N 1/8 - 1/4 (0.128 mi.)	E18	148
DEYANIRA REQUENES EPA ID:: CAC003028051	26880 MOSSWAY ST	N 1/8 - 1/4 (0.128 mi.)	E19	150
EJ MEYER EPA ID:: CAL000258671	26999 E 5TH STREET	ENE 1/8 - 1/4 (0.151 mi.)	F23	159
CITY OF HIGHLAND OPE EPA ID:: CAL000339766	7935 CENTRAL AVE	NNE 1/8 - 1/4 (0.163 mi.)	E27	173
CSR AIR CONDITIONING EPA ID:: CAL000256584	27015 E 5TH ST	ENE 1/8 - 1/4 (0.165 mi.)	F28	175
PENSKE EPA ID:: CAC003041416	27056 5TH ST	ENE 1/8 - 1/4 (0.214 mi.)	37	202

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOBLE METAL LABS INC EPA ID:: CAP000007934	26672 3RD ST	W 0 - 1/8 (0.101 mi.)	C15	136
NOBLE METAL LAB INC	26672 THIRD ST	W 0 - 1/8 (0.101 mi.)	C16	138

EPA ID:: CAP000182386				
SAN BERNARDINO CTY F EPA ID:: CAH111000474	2824 E W ST BLDG 302	SW 1/8 - 1/4 (0.197 mi.)	H32	184
SAN BERNARDINO COUNT EPA ID:: CAL000272339	2824 E W ST	SW 1/8 - 1/4 (0.197 mi.)	H36	199

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 02/11/2021 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON COMMUNICATION		WSW 1/2 - 1 (0.915 mi.)	K49	470

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS		S 0 - 1/8 (0.089 mi.)	0	9

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2018 has revealed that there are 2 UXO sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER SKEET RANGE N		SSE 1/4 - 1/2 (0.390 mi.)	39	206

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER SKEET RANGE N		SSW 1/2 - 1 (0.650 mi.)	43	379

EXECUTIVE SUMMARY

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	NORTON AIR FORCE BAS	SW 1/2 - 1 (0.656 mi.)	J44	379

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 02/16/2021 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLLEEN EPA ID: CAT000613927 Cleanup Status: CLOSED	***7979 PALM AVE.***	***E 1/2 - 1 (0.536 mi.)***	***I41***	***209***

CA MWMP: 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.

A review of the CA MWMP list, as provided by EDR, and dated 01/29/2021 has revealed that there is 1 CA MWMP site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COUNTY FIRE-HHW PROG Registration Number: 1676	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***179***

San Bernardino County Fire Department Hazardous Materials Division.

A review of the CA San Bern. Co. Permit list, as provided by EDR, and dated 05/19/2021 has revealed that there are 12 CA San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S Facility Status: ACTIVE Facility Id: FA0016030	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***96***
WYLE LABS EAST TEST Facility Status: INACTIVE Facility Id: FA0010413	3505 E 3RD ST	ESE 0 - 1/8 (0.020 mi.)	A5	108
SANCHEZ AUTOMOTIVE S Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0015635 Facility Id: FA0010276	***26967 5TH ST***	***NE 0 - 1/8 (0.076 mi.)***	***B6***	***109***

Facility Id: FA0004600				
ELITE LAWN & LANDSCA Facility Status: INACTIVE Facility Id: FA0002894	26975 5TH ST	ENE 0 - 1/8 (0.086 mi.)	B8	120
MATICH CORPORATION Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0010796	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***122***
E.J. MEYER COMPANY Facility Status: ACTIVE Facility Id: FA0012324	***26999 E 5TH ST***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F25***	***164***
CITY OF HIGHLAND-OPE Facility Status: ACTIVE Facility Id: FA0011950	***7935 CENTRAL***	***NNE 1/8 - 1/4 (0.163 mi.)***	***E26***	***169***

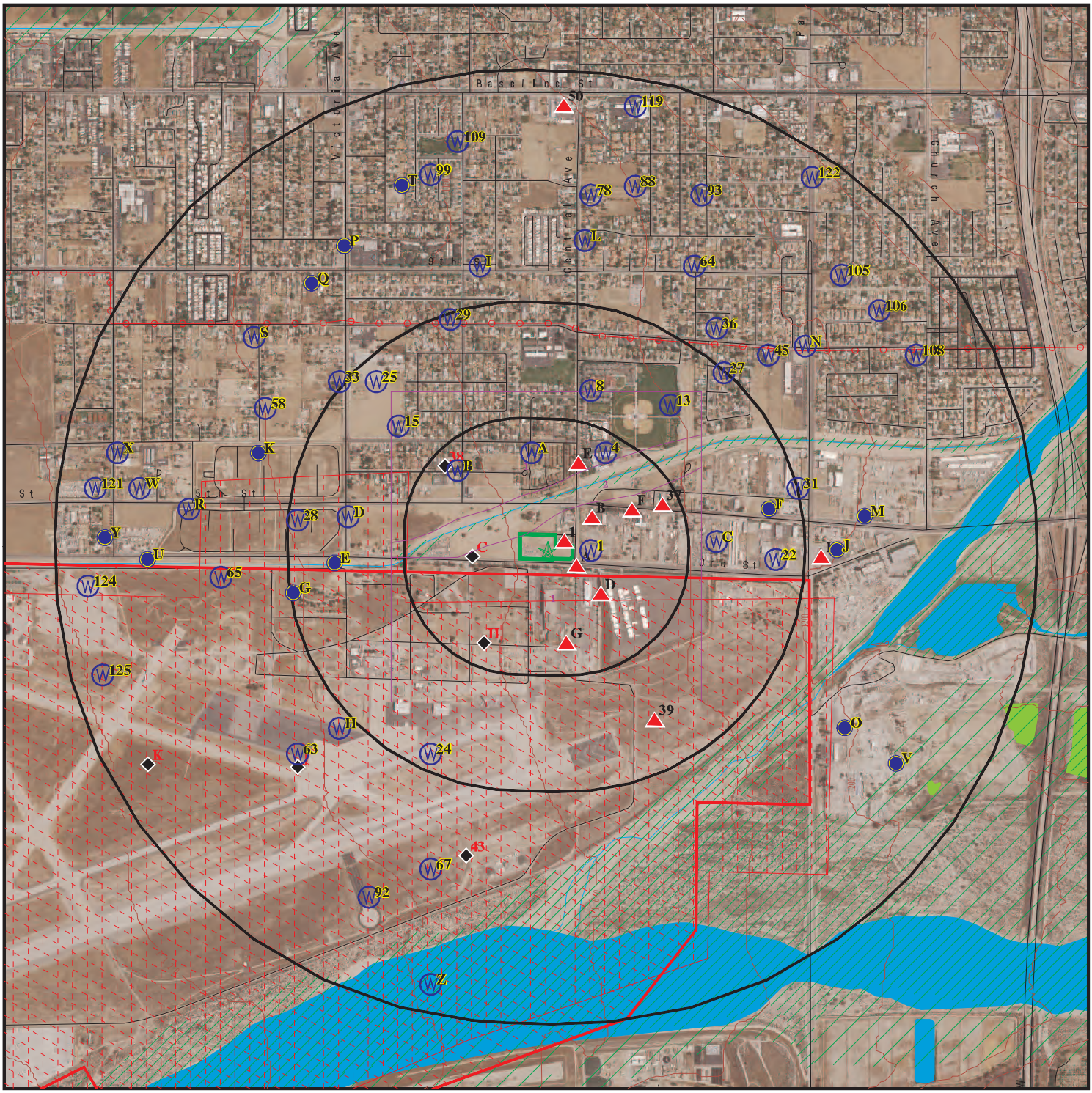
Lower Elevation	Address	Direction / Distance	Map ID	Page
CANDY'S Facility Status: INACTIVE Facility Id: FA0014643	26698 3RD ST	W 0 - 1/8 (0.091 mi.)	C9	121
NOBLE METAL LAB Facility Status: INACTIVE Facility Id: FA0004984	26672 3RD ST	W 0 - 1/8 (0.101 mi.)	C14	135
JC'S AUTO REPAIR Facility Status: ACTIVE Facility Id: FA0004044	***26670 3RD ST***	***W 0 - 1/8 (0.102 mi.)***	***C17***	***142***
COUNTY FIRE-HHW PROG Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0002298	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***179***
RICHARD SEWELL TRAIN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013474 Facility Id: FA0002351 Facility Id: FA0014075	***2824 E W ST BLDG 302***	***SW 1/8 - 1/4 (0.197 mi.)***	***H33***	***189***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
CIMA ROAD MINE WASTE SITE	CA CDL
SECCOMBE LAKE STATE REC AREA	SEMS
NORTON A F B BLDG 754	SEMS-ARCHIVE
	CA LUST

OVERVIEW MAP - 6657652.2S



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

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor INQUIRY #: 6657652.2s
LAT/LONG: 34.1069 / 117.218606	DATE: September 13, 2021 4:25 am

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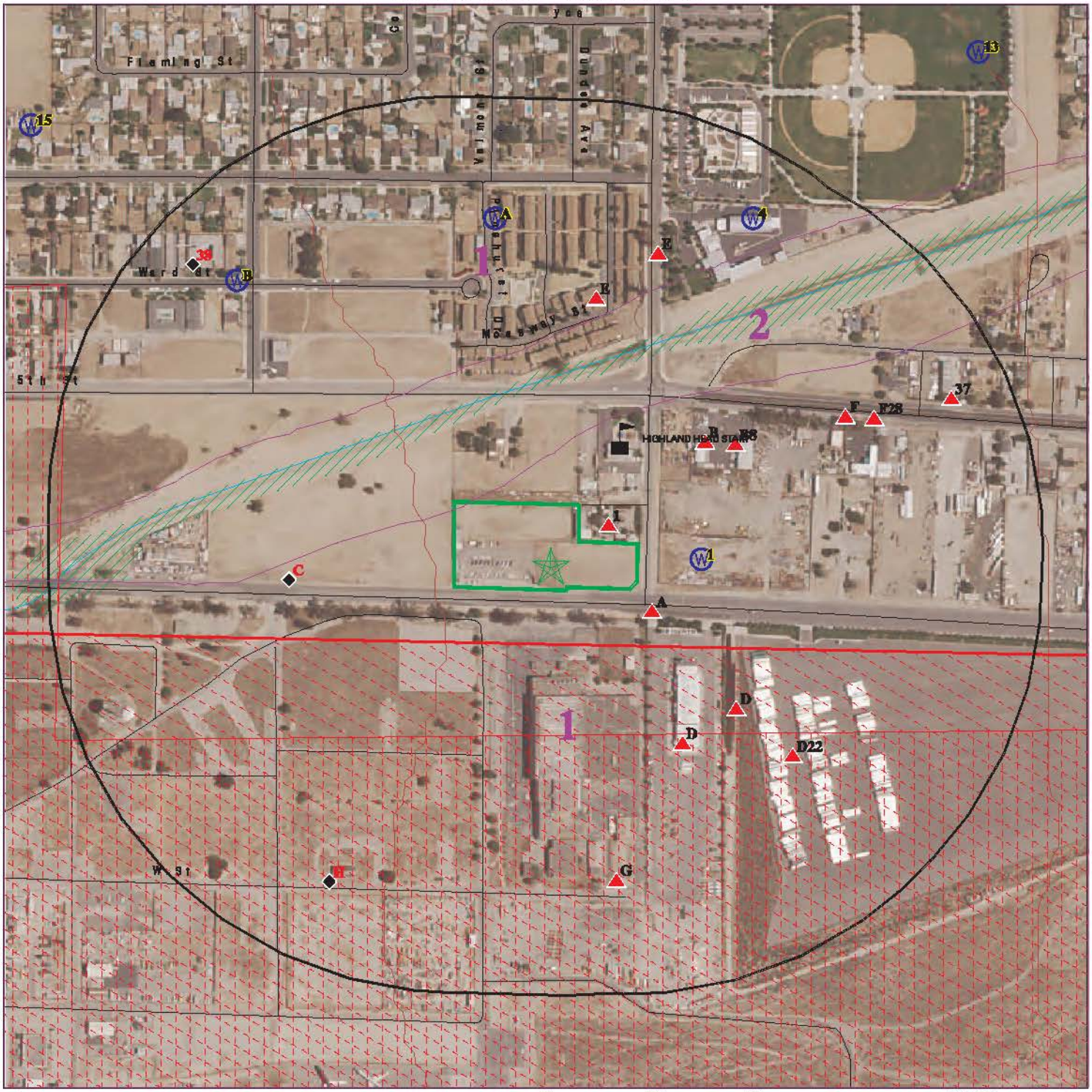
DETAIL MAP - 6657652.2S



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

0 1/16 1/8 1/4 Miles

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: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:27 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		1	0	0	0	NR	1
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		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	3	NR	NR	NR	5
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROLS	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	0	5	NR	5
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	0	0	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA 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
CA UST	0.250		1	1	NR	NR	NR	2
CA AST	0.250		2	2	NR	NR	NR	4
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA 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								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	1	NR	1
CA CERS HAZ WASTE	0.250		4	4	NR	NR	NR	8
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		3	1	NR	NR	NR	4
Local Land Records								
CA LIENS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		6	8	NR	NR	NR	14
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		1	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		1	NR	NR	NR	NR	1
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	1	1	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
CA Cortese	0.500		0	0	0	NR	NR	0
CA 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
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		0	NR	NR	NR	NR	0
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	0	NR	NR	0
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	1	NR	NR	NR	1
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA San Bern. Co. Permit	0.250		8	4	NR	NR	NR	12
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	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		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	35	27	1	12	0	75

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

DOD **NORTON AIR FORCE BASE (CLOSED)** **DOD** **CUSA143166**
Region **N/A**
South **NORTON AIR FORCE BASE (CL (County), CA**
< 1/8
471 ft.

DOD:

Feature 1:	Air Force DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Norton Air Force Base (Closed)
Name 2:	Not reported
Name 3:	Not reported
State:	CA
DOD Site:	Yes
Tile name:	CASAN_BERNARDINO

NPL **USAF NORTON AFB** **NPL** **1000417274**
Region **305 S TIPPECANOE AVE** **SEMS** **CA4570024345**
South **SAN BERNARDINO, CA 92408** **CORRACTS**
< 1/8 **RCRA-TSDF**
176 ft. **RCRA-SQG**
US ENG CONTROLS
US INST CONTROLS
ROD
PADS

NPL:

EPA Region:	9
EPA ID:	CA4570024345
Site ID:	902760
Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
Federal:	Y
Final Date:	1987-07-22 00:00:00
Latitude:	34.098061
Longitude:	-117.2372
Site Score:	39.649999999999999

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	U211
CAS Number:	56-23-5
Substance:	CARBON TETRACHLORIDE
Pathway:	GROUND WATER PATHWAY
Scoring:	3

NPL Status:	Currently on the Final NPL
Substance ID:	U228
CAS Number:	79-01-6
Substance:	TRICHLOROETHYLENE (TCE)

USAF NORTON AFB (Continued) **1000417274**

Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal October 15, 1984): Norton Air Force Base covers approximately 2,036 acres 58 miles east of Los Angeles near the City of San Bernardino, San Bernardino County, California. It is in a low-lying alluvial plain surroundedon the north and east by the San Bernardino Mountain Range. The base began operations in 1942 and has served as a major overhaul center for jet engines and the general repair of aircraft. Since 1962, the facility has served as a Military Airlift Command Base. In addition, Norton formerly had the responsibility for providing maintenance and logistics for liquid-fuel intercontinental ballistic missiles. Past ha ardous waste management practices may have contributed to existingcontamination problems throughout the base. The practices include burial of drums and other unspecified materials; disposal of waste oils, solvents, and paint residues into landfills, unlined pits, ponds, and drying beds; storage in leaking underground tanks; and spills of AVGAS, oils, solvents, PCBs, and acidic plating solutions. Industrial solvents have been used extensively on the base. Unknown quantities of spent solvents were disposed of in several base landfills.A well on the base has been contaminated with trichloroethylene TCE). The well water is currently being used in a blended system and is sampled quarterly to ensure that TCE is below the California State action level. The water is used by approximately ll,000 people who live and/or work on the base. Norton Air Force Base is participating in the Installation Restoration Program IRP), established in l978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. The Air Force has completed Phase I records search). Phase II remedial investigation) is underway. Status July 22, 1987): In November 1986, the California Regional Water Quality Control Board issued a Cleanup and Abatement Order requiring Norton to clean up one on-base area, the Industrial Waste Water Treatment Plant Sludge Drying Beds. Phase II-Stage 2 of the IRP was completed in December 1986. It focusedon characteri ation of the contamination at 18 on-base areas. More than 22 areas have been identified to date. Additional areas will be studied in Stage 3, scheduled to begin in the fall of 1987. Within the boundaries of this Federal facility, there are areas subject to the Subtitle C corrective action authorities of the Resource Conservation and Recovery Act RCRA). However, no such areas were included in scoring this specific site. Therefore, this Federal facility site isbeing placed on the Federal section of the NPL under the NPL/RCRA policy announced on September 8, 1983 48 FR 40662).

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 80

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: NORTON AIR FORCE BASE (LNDFLL #2)

USAF NORTON AFB (Continued) **1000417274**

NPL:

EPA Region:	09
Site ID:	0902760
Site Status:	F
Federal Site:	Y
Date Deleted:	Not reported
Date Finalized:	07/22/87
Date Proposed:	10/15/84

NPL:

Proposed Date:	10/15/1984
Final Date:	07/22/1987
Deleted Date:	Not reported
NPL Status:	Final

SEMS:

Site ID:	0902760
EPA ID:	CA4570024345
Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
Cong District:	31,40
FIPS Code:	06071
Latitude:	34.098061
Longitude:	-117.237200
FF:	Y
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

SEMS Detail:

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CR
Action Name:	CI
SEQ:	1
Start Date:	1987-09-30 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	CM
Action Name:	PCOR

USAF NORTON AFB (Continued) **1000417274**

SEQ:	1
Start Date:	2006-05-16 04:00:00
Finish Date:	5/16/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1988-06-01 04:00:00
Finish Date:	6/1/1988 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1989-04-30 04:00:00
Finish Date:	6/30/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-07-24 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y

USAF NORTON AFB (Continued) **1000417274**

OU:	02
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	1999-11-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1989-06-29 04:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	13
Start Date:	2004-02-02 05:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2003-11-24 05:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	15
Start Date:	2003-12-17 05:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	16
Start Date:	2003-12-11 05:00:00
Finish Date:	12/3/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	17
Start Date:	1996-09-20 04:00:00
Finish Date:	11/15/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	1996-03-25 05:00:00
Finish Date:	4/22/1997 4:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac

USAF NORTON AFB (Continued) **1000417274**

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	1996-04-25 04:00:00
Finish Date:	9/30/1999 4:00:00 AM
Qual:	S
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	1996-04-18 04:00:00
Finish Date:	12/19/1997 5:00:00 AM
Qual:	P
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1997-06-30 04:00:00
Finish Date:	12/8/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1997-06-25 04:00:00
Finish Date:	12/8/1998 5:00:00 AM

USAF NORTON AFB (Continued) **1000417274**

Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	1996-04-15 04:00:00
Finish Date:	7/22/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	3
Start Date:	1998-10-01 04:00:00
Finish Date:	6/10/2003 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD

USAF NORTON AFB (Continued) **1000417274**

SEQ:	2
Start Date:	2005-09-29 04:00:00
Finish Date:	9/29/2005 4:00:00 AM
Qual:	R
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	9/16/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1984-10-15 05:00:00
Finish Date:	10/15/1984 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	1996-03-29 05:00:00
Finish Date:	3/29/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y

USAF NORTON AFB (Continued) **1000417274**

OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1993-11-24 05:00:00
Finish Date:	11/24/1993 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-08-01 04:00:00
Finish Date:	8/1/1980 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	1991-01-04 05:00:00
Finish Date:	4/8/1992 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1997-06-25 04:00:00
Finish Date:	6/25/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-04-01 06:00:00
Finish Date:	4/1/1984 6:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1987-07-22 04:00:00
Finish Date:	7/22/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	1994-09-16 04:00:00
Finish Date:	7/26/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	1995-12-21 05:00:00
Finish Date:	7/28/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

USAF NORTON AFB (Continued) **1000417274**

Region:	09
Site ID:	0902760
EPA ID:	CA4570024345
Site Name:	NORTON AIR FORCE BASE (LNDFLL #2)
NPL:	F
FF:	Y
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	1996-07-26 04:00:00
Finish Date:	12/21/2005 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

CORRACTS:

Name:	USAF NORTON AFB
Address:	305 S TIPPECANOE AVE
Address 2:	Not reported
EPA ID:	CA4570024345
Area Name:	CENTRAL BASE AREA OU
Corrective Action:	INVESTIGATION WORKPLAN APPROVED
Actual Date:	00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

Name:	USAF NORTON AFB
Address:	305 S TIPPECANOE AVE
Address 2:	Not reported
EPA ID:	CA4570024345
Area Name:	CENTRAL BASE AREA OU
Corrective Action:	INVESTIGATION COMPLETE
Actual Date:	00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

Name:	USAF NORTON AFB
Address:	305 S TIPPECANOE AVE
Address 2:	Not reported
EPA ID:	CA4570024345
Area Name:	CENTRAL BASE AREA OU
Corrective Action:	CMS WORKPLAN APPROVED
Actual Date:	00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Not reported
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Not reported

Name:	USAF NORTON AFB
Address:	305 S TIPPECANOE AVE
Address 2:	Not reported
EPA ID:	CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Area Name: CENTRAL BASE AREA OU
Corrective Action: CMS COMPLETE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CMI WORKPLAN APPROVED
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION and TREATMENT
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported

USAF NORTON AFB (Continued) **1000417274**

Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY DECISION
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS: record(s) in the EDR Site Report.

RCRA-SQG:

Date Form Received by Agency:	1996-09-01 00:00:00.0
Handler Name:	USAF NORTON AFB
Handler Address:	305 S TIPPECANOE AVE
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Federal
Federal Waste Generator Description:	Small Quantity Generator

USAF NORTON AFB (Continued) **1000417274**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	CA
State District:	4
Mailing Address:	63RD CIV ENG SQU/DEEV
Mailing City,State,Zip:	NORTON AFB, CA 92409
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	MULTIPLE OPS - USAF & DPDO
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
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:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not Accomplished
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
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:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
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

USAF NORTON AFB (Continued) **1000417274**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2006-09-05 00:00:00.0
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:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NORTON AFB
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92409
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-09-01 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

USAF NORTON AFB (Continued) **1000417274**

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:	1996-09-01 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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

Receive Date:	1980-08-18 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
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:	1990-04-17 00:00:00.0
Handler Name: NORTON AIR FORCE BASE	
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

Receive Date:	1992-02-28 00:00:00.0
Handler Name: NORTON AIR FORCE BASE	
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

USAF NORTON AFB (Continued) **1000417274**

Electronic Manifest Broker: Not reported

Receive Date: 1994-03-28 00:00:00.0
Handler Name: USAF NORTON AFB
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

Receive Date: 1996-03-11 00:00:00.0
Handler Name: NORTON AIR FORCE BASE
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: 2349
NAICS Description: OTHER HEAVY CONSTRUCTION

NAICS Code: 23552
NAICS Description: FLOOR LAYING AND OTHER FLOOR CONTRACTORS

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 336411
NAICS Description: AIRCRAFT MANUFACTURING

NAICS Code: 48811
NAICS Description: AIRPORT OPERATIONS

NAICS Code: 56121
NAICS Description: FACILITIES SUPPORT SERVICES

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

USAF NORTON AFB (Continued) **1000417274**

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-08-20 00:00:00.0
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-06-23 00:00:00.0
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1989-10-30 00:00:00.0
Actual Return to Compliance Date:	1990-03-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1990-03-14 00:00:00.0
Enforcement Identifier:	004
Date of Enforcement Action:	1989-12-11 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1992-05-15 00:00:00.0
Actual Return to Compliance Date: 1992-06-19 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	2003-04-22 00:00:00.0
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	2005-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - General
Date Violation was Determined: 1988-07-26 00:00:00.0
Actual Return to Compliance Date: 1989-10-30 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	1987-08-20 00:00:00.0
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1993-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1993-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	2003-04-22 00:00:00.0
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2005-03-16 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1991-02-27 00:00:00.0
Actual Return to Compliance Date:	1991-05-16 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1991-07-12 00:00:00.0
Enforcement Identifier:	005
Date of Enforcement Action:	1991-04-12 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1987-06-23 00:00:00.0
Actual Return to Compliance Date: 1987-08-06 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 1987-08-06 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1993-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1993-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1987-08-20 00:00:00.0
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-01-28 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1993-05-13 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1993-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1993-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 1987-08-20 00:00:00.0
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 1988-07-26 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2005-06-22 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1987-07-30 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported

USAF NORTON AFB (Continued) **1000417274**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2008-06-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-04-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	1989-10-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-03-14 00:00:00.0
Scheduled Compliance Date:	1990-03-14 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-04-11 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-04-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-07-26 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-10-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-08-20 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-04-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-07-30 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2015-04-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2017-04-13 00:00:00.0
Evaluation Responsible Agency:	State

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-05-16 00:00:00.0
Scheduled Compliance Date:	1991-07-12 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0

USAF NORTON AFB (Continued) **1000417274**

Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-08-20 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2016-04-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

RCRA-SQG:

Date Form Received by Agency:	1996-09-01 00:00:00.0
Handler Name:	USAF NORTON AFB
Handler Address:	305 S TIPPECANOE AVE
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Federal
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	CA
State District:	4
Mailing Address:	63RD CIV ENG SQU/DEEV
Mailing City,State,Zip:	NORTON AFB, CA 92409
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	MULTIPLE OPS - USAF & DPDO
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
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:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not Accomplished
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported

USAF NORTON AFB (Continued) **1000417274**

202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
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:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	No
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:	2006-09-05 00:00:00.0
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:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - USAF & DPDO
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	US DEPT OF AIR FORCE NORTON
Owner/Operator City,State,Zip:	CITY NOT REPORTED, CA 99999
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Date Ended Current:	Not reported
Owner/Operator Address:	NORTON AFB
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92409
Owner/Operator Telephone:	714-382-3909
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-09-01 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
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:	1996-09-01 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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

Receive Date:	1980-08-18 00:00:00.0
Handler Name: USAF NORTON AFB	
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
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:	1990-04-17 00:00:00.0
Handler Name: NORTON AIR FORCE BASE	
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

USAF NORTON AFB (Continued) **1000417274**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1992-02-28 00:00:00.0
Handler Name: NORTON AIR FORCE BASE
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

Receive Date: 1994-03-28 00:00:00.0
Handler Name: USAF NORTON AFB
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

Receive Date: 1996-03-11 00:00:00.0
Handler Name: NORTON AIR FORCE BASE
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: 2349
NAICS Description: OTHER HEAVY CONSTRUCTION

NAICS Code: 23552
NAICS Description: FLOOR LAYING AND OTHER FLOOR CONTRACTORS

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 336411
NAICS Description: AIRCRAFT MANUFACTURING

NAICS Code: 48811

USAF NORTON AFB (Continued) **1000417274**

NAICS Description: AIRPORT OPERATIONS

NAICS Code: 56121
NAICS Description: FACILITIES SUPPORT SERVICES

NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

NAICS Code: 81292
NAICS Description: PHOTOFINISHING

NAICS Code: 92411
NAICS Description: ADMINISTRATION OF AIR AND WATER RESOURCE AND SOLID WASTE MANAGEMENT PROGRAMS

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-08-20 00:00:00.0
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1987-06-23 00:00:00.0
Actual Return to Compliance Date: 1987-08-06 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1989-10-30 00:00:00.0
Actual Return to Compliance Date:	1990-03-14 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1990-03-14 00:00:00.0
Enforcement Identifier:	004
Date of Enforcement Action:	1989-12-11 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Ground-Water Monitoring
Date Violation was Determined:	2003-04-22 00:00:00.0
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	500
Date of Enforcement Action:	2005-03-17 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - General
Date Violation was Determined:	1988-07-26 00:00:00.0
Actual Return to Compliance Date:	1989-10-30 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 1987-08-20 00:00:00.0
Actual Return to Compliance Date: 1988-07-26 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1993-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1993-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Ground-Water Monitoring
Date Violation was Determined: 2003-04-22 00:00:00.0
Actual Return to Compliance Date: 2005-07-27 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2005-03-16 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1992-05-15 00:00:00.0
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1992-05-15 00:00:00.0
Actual Return to Compliance Date: 1992-06-19 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1991-02-27 00:00:00.0
Actual Return to Compliance Date:	1991-05-16 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1991-07-12 00:00:00.0
Enforcement Identifier:	005
Date of Enforcement Action:	1991-04-12 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General
Date Violation was Determined:	1987-06-23 00:00:00.0
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	002
Date of Enforcement Action:	1987-08-06 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1993-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-01-28 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1993-05-13 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1993-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	TSD - Closure/Post-Closure
Date Violation was Determined:	1987-08-20 00:00:00.0
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	1993-04-22 00:00:00.0
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Enforcement Identifier:	006
Date of Enforcement Action:	1993-04-22 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1993-04-22 00:00:00.0
Actual Return to Compliance Date: 1994-01-28 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1993-05-13 00:00:00.0
Enforcement Identifier: 006
Date of Enforcement Action: 1993-04-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	1987-08-20 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-06-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-07-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2008-06-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-04-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1989-10-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-03-14 00:00:00.0
Scheduled Compliance Date:	1990-03-14 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-04-11 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2003-04-22 00:00:00.0
Evaluation Responsible Agency:	State

USAF NORTON AFB (Continued) **1000417274**

Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-07-26 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-10-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-08-20 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0

USAF NORTON AFB (Continued) **1000417274**

Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2003-04-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	GROUNDWATER MONITORING EVALUATION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2005-07-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1994-01-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1987-07-30 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2015-04-29 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2017-04-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1992-03-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	KMORI
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1992-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-05-16 00:00:00.0
Scheduled Compliance Date:	1991-07-12 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA

USAF NORTON AFB (Continued) **1000417274**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1987-08-06 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1987-08-20 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1988-07-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-03-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1994-01-28 00:00:00.0
Scheduled Compliance Date:	1993-05-13 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2016-04-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

USAF NORTON AFB (Continued) **1000417274**

SIte:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
Event Code:	Not reported
Action Taken Date:	09/29/2005
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	02
Contaminated Media:	Soil
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Media:

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

USAF NORTON AFB (Continued) **1000417274**

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993

USAF NORTON AFB (Continued) **1000417274**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994

USAF NORTON AFB (Continued) **1000417274**

NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345

USAF NORTON AFB (Continued) **1000417274**

Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL

USAF NORTON AFB (Continued) **1000417274**

Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	06/25/1997
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Air
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

EPA ID:	CA4570024345
Contaminated Media:	Debris
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	11/24/1993
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

USAF NORTON AFB (Continued) **1000417274**

US INST CONTROLS:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Groundwater
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	1
Operable Unit:	01
Actual Date:	11/24/1993
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1994
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	2
Operable Unit:	02
Actual Date:	09/29/2005
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

USAF NORTON AFB (Continued) **1000417274**

Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
Action Name:	Record of Decision
Action ID:	3
Operable Unit:	02
Actual Date:	06/25/1997
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1997
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.098061
Longitude:	-117.237200

ROD:

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
RG:	9
Site ID:	902760
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	CENTRAL BASE AREA
SEQ ID:	1
Action Completion:	1993-11-24 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
RG:	9
Site ID:	902760
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	BASEWIDE
SEQ ID:	2
Action Completion:	2005-09-29 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	NORTON AIR FORCE BASE (LNDFLL #2)
Address:	I-10/US 395 FORMER NORTON AFB

USAF NORTON AFB (Continued) **1000417274**

City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CA4570024345
RG:	9
Site ID:	902760
Action:	GOVT Decision Document (ROD)
Operable Unit Number:	BASEWIDE
SEQ ID:	3
Action Completion:	1997-06-25 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

PADS:

Name:	USAF NORTON AFB
Address:	63 CES DEV
Address 2:	Not reported
City,State,Zip:	NORTON AFB, CA 92409
EDR ID:	1000417274
EPAID:	CA4570024345
Region:	9
Generator:	Y
Storer:	N
Disposer:	N
Transporter:	N
Smelter:	N
Research Facility:	N
Mailing Address:	63 CES DEV
Mailing Address 2:	Not reported
Mailing City:	NORTON AFB
Mailing State:	CA
Mailing Zip:	92409
Mailing Country:	US
Owner Name:	US DOD
Certification Date:	06/22/1990
Contact Name:	EDMUND M DIENZO
Contact Title:	Not reported
Contact Telephone:	714-382-2444
Contact Text:	Not reported
Contact Email:	Not reported

---

1 **JOSE HUIZAR** **RCRA NonGen / NLR** **1025854832**
NE **26875 4TH PL** **CAC003035088**
< 1/8 **HIGHLAND, CA 92346**
0.011 mi.
59 ft.

Relative:
Higher

Actual:
1165 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-09-22 00:00:00.0
Handler Name:	JOSE HUIZAR	
Handler Address:		26875 4TH PL
Handler City,State,Zip:		HIGHLAND, CA 92346-4105
EPA ID:		CAC003035088
Contact Name:		JOSE HUIZAR
Contact Address:		26875 4TH PL
Contact City,State,Zip:		HIGHLAND, CA 92346-4105
Contact Telephone:		951-634-5029
Contact Fax:		Not reported
Contact Email:		FAVILA@BURNS-ENVIRO.COM

JOSE HUIZAR (Continued) **1025854832**

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:	26875 4TH PL
Mailing City,State,Zip:	HIGHLAND, CA 92346-4105
Owner Name:	JOSE HUIZAR
Owner Type:	Other
Operator Name:	JOSE HUIZAR
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

JOSE HUIZAR (Continued) **1025854832**

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:	2019-09-27 16:23:27.0
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:	JOSE HUIZAR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26875 4TH PL
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4105
Owner/Operator Telephone:	951-634-5029
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOSE HUIZAR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26875 4TH PL
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4105
Owner/Operator Telephone:	951-634-5029
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-09-22 00:00:00.0
Handler Name: JOSE HUIZAR	
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

JOSE HUIZAR (Continued) **1025854832**

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

A2 **NATIONAL TECHNICAL SYSTEMS** **CA AST** **S117896923**
ESE **3505 E THIRD ST** **CA CERS HAZ WASTE** **N/A**
< 1/8 **SAN BERNARDINO, CA 92408** **CA CERS TANKS**
0.020 mi. **CA San Bern. Co. Permit**
103 ft. **Site 1 of 4 in cluster A** **CA CERS**

Relative:
Higher

Actual:
1166 ft.

AST:

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City/Zip:	SAN BERNARDINO,92408
Certified Unified Program Agencies:	Not reported
Owner:	National Technical Systems
Total Gallons:	Not reported
CERSID:	10505722
Facility ID:	FA0010413
Business Name:	National Technical Systems
Phone:	(909)863-5150
Fax:	Not reported
Mailing Address:	3505 E. Third St.
Mailing Address City:	San Bernardino
Mailing Address State:	CA
Mailing Address Zip Code:	92408
Operator Name:	National Technical Systems
Operator Phone:	(909)863-5150
Owner Phone:	(818)591-0776
Owner Mail Address:	24007 Ventura Blvd. Ste. 200
Owner State:	CA
Owner Zip Code:	91302
Owner Country:	United States
Property Owner Name:	San Bernardino Int'l Airport
Property Owner Phone:	909-382-4100
Property Owner Mailing Address:	1601 E. Third St. Ste 100
Property Owner City:	San Bernardino
Property Owner Stat :	CA
Property Owner Zip Code:	92408
Property Owner Country:	United States
EPAID:	CAL000398078

CERS HAZ WASTE:

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	137418
CERS ID:	10505722
CERS Description:	Hazardous Waste Generator

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

CERS TANKS:

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	137418
CERS ID:	10505722
CERS Description:	Aboveground Petroleum Storage

San Bern. Co. Permit:

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0016030
Owner:	National Technical Systems
Permit Number:	PT0034693
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	04/30/2022

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0016030
Owner:	National Technical Systems
Permit Number:	PT0034697
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	04/30/2022

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0016030
Owner:	National Technical Systems
Permit Number:	PT0034696
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	04/30/2022

CERS:

Name:	NATIONAL TECHNICAL SYSTEMS
Address:	3505 E THIRD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	137418
CERS ID:	10505722
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	137418
Site Name:	National Technical Systems
Violation Date:	07-06-2015
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/23/2015. Failure to manage contaminated containers lawfully (CCR 66261.7) Observed numerous empty containers in the hazardous materials storage area that were not labeled "EMPTY" with the empty date listed. COMPLIANCE REQUIREMENT: Label all empty containers that at one time held a hazardous material as "EMPTY" with the date emptied listed. Within 1 year of being empty, the container must be reused, recycled, or handled in a similar manner. Signature on Certificate of Compliance denotes compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	137418
Site Name:	National Technical Systems
Violation Date:	07-06-2015
Citation:	HSC 6.95 25508.1(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(f)
Violation Description:	Failure to electronically update the business plan within 30 days of a substantial change.
Violation Notes:	Returned to compliance on 07/23/2015. Observed ~1500 gallon LNG vertical cryogenic tank onsite that was not disclosed in CERS. According to employees, this tank has been onsite for longer than 30 days. Also observed ~7 - 55 gallon drums of heat transfer fluids that were not disclosed in CERS. COMPLIANCE REQUIREMENT: Update the inventory portion in CERS to report the above noted chemicals in inventory. Also update the site map. Signature on the included Certificate of Compliance denotes compliance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	137418
Site Name:	National Technical Systems
Violation Date:	08-24-2018
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to prepare an SPCC Plan that meets all applicable requirements.
Violation Notes:	Returned to compliance on 11/28/2018. OBSERVATION: The current SPCC plan does not have an accurate and complete inventory and does not list the correct emergency contact number for the local CUPA. ATF, waste kerosene, and any other petroleum products must be listed in the plan. The emergency contact number for San Bernardino County Fire is 909-386-8425. CORRECTIVE ACTION: Submit a signed statement that the SPCC plan has been revised to include this information.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-24-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE GENERATOR INSPECTION-NATIONAL TECHNICAL SYSTEMS
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-24-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-NATIONAL TECHNICAL SYSTEMS
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-24-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE APSA INSPECTION-NATIONAL TECHNICAL SYSTEMS
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS

Enforcement Action:

Site ID:	137418
Site Name:	National Technical Systems
Site Address:	3505 E THIRD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	07-06-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	137418
Site Name:	National Technical Systems
Site Address:	3505 E THIRD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	07-06-2015
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	137418
Site Name:	National Technical Systems
Site Address:	3505 E THIRD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	07-06-2015
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:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	RICHARD JOHNSON
Entity Title:	Not reported
Affiliation Address:	3505 E. Third St.
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	National Technical Systems
Entity Title:	Not reported
Affiliation Address:	2125 E. Katella Ave.
Affiliation City:	Anaheim
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91806
Affiliation Phone:	(714) 450-9500

Affiliation Type Desc:	Operator
Entity Name:	National Technical Systems
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 863-5150

Affiliation Type Desc:	Parent Corporation
Entity Name:	National Technical Systems
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:	Richard Johnson
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:	Richard Johnson
Entity Title:	Facility 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:	Property Owner
Entity Name:	San Bernardino Int'l Airport
Entity Title:	Not reported
Affiliation Address:	1601 E. Third St. Ste 100
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92408
Affiliation Phone:	(909) 382-4100

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	3505 E. Third St.
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire

NATIONAL TECHNICAL SYSTEMS (Continued) **S117896923**

Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

A3 **WYLE LABS SBO EAST DEPT 551** **RCRA-SQG** **1009216575**
ESE **3505 E 3RD ST** **CAR000169649**
< 1/8 **SAN BERNARDINO, CA 92408**
0.020 mi.
103 ft. **Site 2 of 4 in cluster A**

Relative:
Higher

Actual:
1166 ft.

RCRA-SQG:

Date Form Received by Agency:	2005-12-14 00:00:00.0
Handler Name:	WYLE LABS SBO EAST DEPT 551
Handler Address:	3505 E 3RD ST
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CAR000169649
Contact Name:	JEFF GLENN
Contact Address:	244 S LELAND NORTON WAY
Contact City,State,Zip:	SAN BERNARDINO, CA 92408
Contact Telephone:	909-382-2323
Contact Fax:	Not reported
Contact Email:	JEFF.GLENN@WYLELABS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
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
State District:	Not reported
Mailing Address:	244 S LELAND NORTON WAY
Mailing City,State,Zip:	SAN BERNARDINO, CA 92408
Owner Name:	SAN BERNARDINO INTL AIRPORT AUTHORITY
Owner Type:	Other
Operator Name:	DOUG ANDERSON
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

WYLE LABS SBO EAST DEPT 551 (Continued) **1009216575**

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:	2006-02-01 14:17:24.0
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:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT

WYLE LABS SBO EAST DEPT 551 (Continued) **1009216575**

NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DOUG ANDERSON
Legal Status:	Private
Date Became Current:	2004-12-08 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:	SAN BERNARDINO INTL AIRPORT AUTHORITY
Legal Status:	Other
Date Became Current:	2000-09-13 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	294 S LELAND NORTON WAY
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
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:	2005-12-14 00:00:00.0
Handler Name:	WYLE LABS SBO EAST DEPT 551

WYLE LABS SBO EAST DEPT 551 (Continued) **1009216575**

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:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	54138
NAICS Description:	TESTING LABORATORIES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A4 **NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIO** **RCRA NonGen / NLR** **1024845186**
ESE **3505 E THIRD ST** **CAL000398078**
< 1/8 **SAN BERNARDINO, CA 92408**
0.020 mi.
103 ft. **Site 3 of 4 in cluster A**

Relative:
Higher

Actual:
1166 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2014-06-24 00:00:00.0
Handler Name:	NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS
Handler Address:	3505 E THIRD ST
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CAL000398078
Contact Name:	RICHARD JOHNSON
Contact Address:	3505 E. THIRD ST
Contact City,State,Zip:	SAN BERNARDINO, CA 92408
Contact Telephone:	909-289-6716
Contact Fax:	Not reported
Contact Email:	RICHARD.JOHNSON@NTS.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:	3505 E. THIRD ST.
Mailing City,State,Zip:	SAN BERNARDINO, CA 92408-0000
Owner Name:	NATIONAL TECHNICAL SYSTEMS
Owner Type:	Other
Operator Name:	RICHARD JOHNSON
Operator Type:	Other

NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS (Continued) **1024845186**

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:	2018-09-06 17:04:39.0
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

NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS (Continued) **1024845186**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NATIONAL TECHNICAL SYSTEMS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	24007 VENTURA BLVD. STE. 200
Owner/Operator City,State,Zip:	CALABASAS, CA 91302-0000
Owner/Operator Telephone:	818-591-0776
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RICHARD JOHNSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	3505 E. THIRD ST
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
Owner/Operator Telephone:	909-289-6716
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2014-06-24 00:00:00.0
Handler Name:	NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS
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:	54194
NAICS Description:	VETERINARY SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A5 ESE < 1/8 0.020 mi. 103 ft. | **WYLE LABS EAST TEST SITE DEPT #551**
3505 E 3RD ST
SAN BERNARDINO, CA 92408

CA San Bern. Co. Permit | **S108758180**
N/A

Site 4 of 4 in cluster A

Relative: Higher

Actual: 1166 ft.

San Bern. Co. Permit:

Name:	WYLE LABS EAST TEST SITE DEPT #551
Address:	3505 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010413
Owner:	WYLE LABORATORIES, INC.
Permit Number:	PT0021934
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	05/31/2016

Name:	WYLE LABS EAST TEST SITE DEPT #551
Address:	3505 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010413
Owner:	WYLE LABORATORIES, INC.
Permit Number:	PT0017718
Permit Category:	HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	05/31/2016

Name:	WYLE LABS EAST TEST SITE DEPT #551
Address:	3505 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010413
Owner:	WYLE LABORATORIES, INC.
Permit Number:	PT0017717
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	05/31/2016

Name:	WYLE LABS EAST TEST SITE DEPT #551
Address:	3505 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010413
Owner:	WYLE LABORATORIES, INC.
Permit Number:	PT0025553
Permit Category:	EPCRA FACILITY
Facility Status:	INACTIVE
Expiration Date:	05/31/2014

B6 **SANCHEZ AUTOMOTIVE SERVICE** **CA CERS HAZ WASTE** **S107592134**
NE **26967 5TH ST** **CA San Bern. Co. Permit** **N/A**
< 1/8 **HIGHLAND, CA 92346** **CA CERS**
0.076 mi. **CA HWTS**
400 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
1168 ft.

CERS HAZ WASTE:

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	150771
CERS ID:	10050988
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015635
Owner:	SAM SWARTZ-
Permit Number:	PT0034311
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

Name:	S&S INLANDSTAR
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0015635
Owner:	SAM SWARTZ-
Permit Number:	PT0034312
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0010276
Owner:	SANCHEZ, DANIEL & LORENA
Permit Number:	PT0032316
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	03/31/2015

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0010276
Owner:	SANCHEZ, DANIEL & LORENA
Permit Number:	PT0017462
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	03/31/2009

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Name: MARTIN'S AUTOMOTIVE
Address: 26967 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004600
Owner: MARTIN, GERALD T.
Permit Number: PT0004422
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2006

CERS:
Name: S&S INLANDSTAR
Address: 26967 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 150771
CERS ID: 10050988
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-02-2020
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 07/02/2020. EPA ID NUMBER CAL000405511 WAS INACTIVE. CORRECTED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-10-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/10/2017. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a)) Failure to keep Hazardous Waste containers closed when not in use.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 150771
Site Name: S&S INLANDSTAR
Violation Date: 07-10-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/10/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) Failure to obtain/maintain an active EPA ID Number. A facility or individual shall not treat, store, dispose of,

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

	transport, or offer for transportation a Hazardous Waste unless an EPA ID Number has been obtained.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	12-01-2014
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/11/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	12-01-2014
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/11/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/10/2020. OBSERVED (1) 55 GALLON DRUM OF USED LUBRICATING OIL, AND (1) 30 GALLON PARTS WASHER, WHICH WERE NOT DISCLOSED IN THE CERS INVENTORY. CORRECTIVE ACTION: COMPLY BY SUBMITTING AND ACCURATE AND COMPLETE HAZARDOUS MATERIALS INVENTORY VIA CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
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.

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Violation Notes:	Returned to compliance on 08/30/2017. Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
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 the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 08/10/2020. FACILITY DISCLOSED EMAIL ADDRESS AS THE PHYSICAL ADDRESS IN THE OWNERSHIP INFORMATION SECTION. CORRECTIVE ACTION: COMPLY BY SUBMITTING THE BUSINESS OWNER/OPERATOR IDENTIFICATION PAGE AS REQUIRED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 08/10/2020. LAST HMBP SUBMITTED VIA CERS OCCURRED ON 07/11/2017. CORRECTIVE ACTION: COMPLY BY REVIEWING AND CERTIFYING THE BUSINESS PLAN ANNUALLY.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	12-01-2014
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-02-2020
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

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

	characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/02/2020. OBSERVED (1) 55 GALLON DRUM CONTAINING USED LUBRICATING OIL TO NOT HAVE HAZARDOUS WASTE LABELING. CORRECTED ON SITE.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Failure to ensure that the following information is present and legible on a Hazardous Waste label: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste and starting accumulation date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/30/2017. Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	12-01-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/11/2017. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	150771
Site Name:	S&S INLANDSTAR
Violation Date:	07-10-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 08/30/2017. Failure to establish a Contingency Plan (CCR 66265.51(a)) Failure to establish a Contingency Plan.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION OF S&S INLAND STAR.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION OF S&S INLAND STAR.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: S S INLAND INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2014
Violations Found: Yes

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Eval Type:	Routine done by local agency
Eval Notes:	S S INLAND INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	150771
Site Name:	S&S INLANDSTAR
Site Address:	26967 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	12-01-2014
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	150771
Site Name:	S&S INLANDSTAR
Site Address:	26967 5TH ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	12-01-2014
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:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	150771
Facility Name:	S&S INLANDSTAR
Env Int Type Code:	HMBP
Program ID:	10050988
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.108009
Longitude:	-117.216949

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	SAM SWARTZ
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

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Entity Title:	Not reported
Affiliation Address:	26967 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	S & S Inland Star
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:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	SAM SWARTZ
Entity Title:	Not reported
Affiliation Address:	26967 5TH ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	SAM SWARTZ
Entity Title:	OWNER
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:	S&S INLAND STAR
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) 864-4701

SANCHEZ AUTOMOTIVE SERVICE (Continued) **S107592134**

Affiliation Type Desc:	Legal Owner
Entity Name:	SAM SWARTZ-
Entity Title:	Not reported
Affiliation Address:	26967 5th st
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-4701

HWTS:

Name:	SANCHEZ AUTOMOTIVE SERVICE
Address:	26967 5TH ST
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 923464207
EPA ID:	CAL000304636
Inactive Date:	06/30/2011
Create Date:	03/21/2006
Last Act Date:	03/22/2012
Mailing Name:	Not reported
Mailing Address:	26967 5TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	HIGHLAND, CA 923464207
Owner Name:	DANIEL & LORENA SANCHEZ
Owner Address:	12846 PENSKE ST
Owner Address 2:	Not reported
Owner City,State,Zip:	MORENO VALLEY, CA 925535212
Contact Name:	DANIEL SANCHEZ
Contact Address:	12846 PENSKE ST
Contact Address 2:	Not reported
City,State,Zip:	MORENO VALLEY, CA 925535212

NAICS:

EPA ID:	CAL000304636
Create Date:	2006-03-21 13:04:52.177
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2006-03-21 13:04:52.11300
Inactive Date:	2011-06-30 00:00:00
Facility Name:	SANCHEZ AUTOMOTIVE SERVICE
Facility Address:	26967 5TH ST
Facility Address 2:	Not reported
Facility City:	HIGHLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	923464207

B7 NE < 1/8 0.076 mi. 400 ft. | **S&S MOTORS INC (DBA) S&S INLAND STAR** | **RCRA NonGen / NLR** | **1026490007**
26967 5TH ST | **CAL000405511**
HIGHLAND, CA 92346

Site 2 of 3 in cluster B

Relative: Higher

Actual: 1168 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2015-03-23 00:00:00.0
Handler Name:	S&S MOTORS INC (DBA) S&S INLAND STAR
Handler Address:	26967 5TH ST
Handler City,State,Zip:	HIGHLAND, CA 92346-4207
EPA ID:	CAL000405511
Contact Name:	SCOTT POWELL
Contact Address:	26967 5TH ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-864-4702
Contact Fax:	844-273-6356
Contact Email:	SERVICETEAM@SANDSINLANDSTAR.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:	26967 5TH ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-4207
Owner Name:	SAM SWARTZ
Owner Type:	Other
Operator Name:	SCOTT POWELL
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

S&S MOTORS INC (DBA) S&S INLAND STAR (Continued) **1026490007**

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:	2020-08-14 15:10:36.0
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:	SCOTT POWELL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26967 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-864-4702
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAM SWARTZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26967 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4207
Owner/Operator Telephone:	909-864-4701
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

S&S MOTORS INC (DBA) S&S INLAND STAR (Continued) **1026490007**

Historic Generators:

Receive Date:	2015-03-23 00:00:00.0
Handler Name:	S&S MOTORS INC (DBA) S&S INLAND STAR
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B8 **ELITE LAWN & LANDSCAPE** **CA San Bern. Co. Permit** **S106910812**
ENE **26975 5TH ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.086 mi.
456 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
1169 ft.

San Bern. Co. Permit:

Name:	ELITE LAWN & LANDSCAPE
Address:	26975 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0002894
Owner:	VILLAMERO, EDWARD
Permit Number:	PT0001210
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2003

Name:	ELITE LAWN & LANDSCAPE
Address:	26975 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0002894
Owner:	VILLAMERO, EDWARD
Permit Number:	PT0001212
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2003

C9 West < 1/8 0.091 mi. 482 ft. | **CANDY'S 26698 3RD ST HIGHLAND, CA 92346** | **CA San Bern. Co. Permit** | **S112142747 N/A**

Site 1 of 5 in cluster C

Relative: Lower

Actual: 1157 ft.

San Bern. Co. Permit:

Name:	CANDY'S
Address:	26698 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0014643
Owner:	MCCARTY, VICTOR & CANDACE
Permit Number:	PT0025564
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	08/31/2013

D10 SE < 1/8 0.099 mi. 522 ft. | **NORTON AIR FORCE BASE - NORTON A F B BLDG 248 106TH ST SAN BERNARDINO, CA 92409** | **CA CERS TANKS** | **S123539074 N/A**

Site 1 of 5 in cluster D

Relative: Higher

Actual: 1169 ft.

CERS TANKS:

Name:	NORTON AIR FORCE BASE - NORTON A F B BLDG 248
Address:	106TH ST
City,State,Zip:	SAN BERNARDINO, CA 92409
Site ID:	213500
CERS ID:	T0607100374
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9093868419

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - 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:	Not reported

D11 SE < 1/8 0.099 mi. 522 ft. | **NORTON AIR FORCE BASE - NORTON A F B BLDG 248** | **CA UST** | **U004267928**
106TH ST | **N/A**
SAN BERNARDINO, CA 92409

Site 2 of 5 in cluster D

Relative: Higher
Actual: 1169 ft.

MILITARY UST SITES:

Name:	NORTON AIR FORCE BASE - NORTON A F B BLDG 248
Address:	106TH ST
City,State,Zip:	SAN BERNARDINO, CA 92409
Global ID:	T0607100374
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	08/11/1995
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	SAN BERNARDINO COUNTY
RB Case Number:	083602642T
Loc Case Number:	0
File Location:	Not reported
Potential Contaminants of Concern:	Diesel
Potential Media Affected:	Soil
Site History:	Not reported
Begin Date:	1989-06-29 00:00:00
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	34.1056218422854
Longitude:	-117.216610908508
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100374

D12 SE < 1/8 0.100 mi. 530 ft. | **MATICH CORPORATION** | **CA AST** | **S108419380**
3231 E 3RD ST | **CA CERS HAZ WASTE** | **N/A**
SAN BERNARDINO, CA 92408 | **CA CERS TANKS**
CA San Bern. Co. Permit
CA CERS

Site 3 of 5 in cluster D

Relative: Higher
Actual: 1168 ft.

AST:

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City/Zip:	SAN BERNARDINO,92408
Certified Unified Program Agencies:	Not reported
Owner:	Stephen Matich
Total Gallons:	Not reported
CERSID:	10051801
Facility ID:	FA0010796
Business Name:	MATICH CORPORATION
Phone:	(909) 382-7400
Fax:	(909) 382-0054
Mailing Address:	3231 East 3RD ST.
Mailing Address City:	SAN BERNARDINO
Mailing Address State:	CA
Mailing Address Zip Code:	92408
Operator Name:	Matich Corporation
Operator Phone:	(909) 382-7400
Owner Phone:	(909) 792-7400
Owner Mail Address:	PO BOX 10
Owner State:	CA

MATICH CORPORATION (Continued) **S108419380**

Owner Zip Code:	92346
Owner Country:	United States
Property Owner Name:	Stephen Matich (on behalf of Matich Corp)
Property Owner Phone:	Not reported
Property Owner Mailing Address:	1596 Harry Sheppard
Property Owner City:	SAN BERNARDINO
Property Owner Stat :	CA
Property Owner Zip Code:	92408
Property Owner Country:	United States
EPAID:	CAD981375348

CERS HAZ WASTE:

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	397228
CERS ID:	10051801
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Site ID:	397228
CERS ID:	10051801
CERS Description:	Aboveground Petroleum Storage

San Bern. Co. Permit:

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010796
Owner:	MATICH CORP
Permit Number:	PT0018538
Permit Category:	LARGE QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	02/28/2022

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010796
Owner:	MATICH CORP
Permit Number:	PT0021214
Permit Category:	APSA 10,001-100,000 GAL FAC CAPACITY
Facility Status:	ACTIVE
Expiration Date:	02/28/2022

Name:	MATICH CORPORATION
Address:	3231 E 3RD ST
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0010796
Owner:	MATICH CORP

MATICH CORPORATION (Continued) **S108419380**

Permit Number: PT0018539
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 02/28/2022

Name: MATICH CORPORATION
Address: 3231 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0010796
Owner: MATICH CORP
Permit Number: PT0021215
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 02/28/2014

CERS:
Name: MATICH CORPORATION
Address: 3231 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 397228
CERS ID: 10051801
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-24-2020
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 site map with all required content.
Violation Notes: Returned to compliance on 05/22/2020. OBSERVATION: The site map submitted in CERS does not include adjacent streets, the emergency evacuation staging area, emergency response equipment, and any storm/sewer drains on site. CORRECTIVE ACTION: Submit a signed statement that updated Business Plan elements have been submitted into CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-13-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan an adequate facility diagram, or no facility diagram included. The facility diagram is not required on a Tier I qualified facility SPCC Plan.
Violation Notes: Returned to compliance on 11/13/2017. The facility diagram provided in the SPCC plan does not cover all the required information. The aboveground piping connected to the used oil tank along with the storage capacity for each tank is missing from the facility diagram.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

MATICH CORPORATION (Continued) **S108419380**

Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	01-02-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 04/13/2017. Need CERS submission
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 11/13/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) (2) 55 gal drums of waste coolant were missing the hazardous waste label.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description:	Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	Returned to compliance on 11/13/2017. Integrity assessment of the hazardous waste aboveground storage tank is not being conducted. Integrity testing shall include, but not limited to leak detection contents, sketch of tank dimensions, capacity, and shelve life.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-24-2020
Citation:	22 CCR 15 66265.195(c) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.195(c)
Violation Description:	Failure to conduct and document inspections of hazardous waste tank systems each operating day and retain records of those inspections at the facility.
Violation Notes:	Returned to compliance on 05/22/2020. OBSERVATION: Daily hazardous waste tank inspection checklists are not being completed and

MATICH CORPORATION (Continued) **S108419380**

maintained on site. CORRECTIVE ACTION: Submit a copy of two weeks worth of completed daily hazardous waste tank inspection checklists to this office.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/13/2017. Failure to inspect Hazardous Waste tank (CCR 66265.195) Daily inspections of the 500 gal used oil aboveground storage tank not available for review.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-13-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards: 1. On a regular schedule. 2. After material repairs are made. 3. By qualified personnel. 4. The frequency and type of testing and inspections based on container size, configuration, and design.
Violation Notes: Returned to compliance on 11/13/2017. Per the SPCC plan, there is no information documenting the industry standards used to determine the testing and inspection procedures for the aboveground containers for integrity testing. Pg 14 of the SPCC plan states monthly inspections are conducted and documented, however the SPCC plan does not go into discussing the industry standard used to determine the inspection frequency. On pg 17, facility sites periodic testing based off of UL standards, however UL standards does not cover integrity testing.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-13-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to include in the SPCC Plan: 1. A contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge 2. Information and procedures that would enable a person reporting an oil discharge to relate all information as described in 40 CFR 112.7(a)(4), unless facility submitted a Facility Response Plan.
Violation Notes: Returned to compliance on 11/13/2017. The contact list and phone numbers for the cleanup contractors with an agreement for response,

MATICH CORPORATION (Continued) **S108419380**

	State, and local agencies who must be contacted in case of a discharge are missing.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-24-2020
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards: 1. On a regular schedule. 2. After material repairs are made. 3. By qualified personnel. 4. The frequency and type of testing and inspections based on container size, configuration, and design.
Violation Notes:	Returned to compliance on 05/22/2020. OBSERVATION: The SPCC plan mentions SP001 as an industry standard for tank integrity inspections, however, annual inspections are not mentioned in the plan as required by STI SP001. CORRECTIVE ACTION: Submit a signed statement that the SPCC plan and tank inspection checklists have been revised to meet tank industry standards.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 11/13/2017. Observed (2) 55 gal drums of drained used oil filters missing the accumulation start date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 11/13/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date missing on the waste antifreeze and waste paper filter drums.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

MATICH CORPORATION (Continued) **S108419380**

Violation Description:	Failure to address in the SPCC Plan the type of oil and storage capacity for each fixed container, and either the type of oil and storage capacity for each mobile or portable container, or an estimate of the potential number of mobile or portable containers, the types of oil, and anticipated storage capacities.
Violation Notes:	Returned to compliance on 11/13/2017. On pg 11 of the SPCC plan, the storage capacity for the contents inside the tank is not provided. The type of oil and the amount stored inside the tank shall be indicated in the SPCC plan.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/15/2017. At time of inspection, observed hazardous materials above reportable threshold (55 gal, 500lbs, 200 cubic feet) that were not listed in the hazardous materials inventory submittal on 11/28/16.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss in the SPCC Plan all applicable bulk storage containers, or no discussion regarding all applicable bulk storage containers included.
Violation Notes:	Returned to compliance on 11/13/2017. The SPCC plan did not adequately discuss the bulk storage containers. On pg 11 of the SPCC plan, under Table 1 G Area A, the ASTG s are documented as double-walled tanks. On pg 17 of the SPCC plan, under Diked Area Inspection and Drainage of Rainwater, the ASTs are referenced as single-walled.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	397228
Site Name:	MATICH CORPORATION
Violation Date:	04-13-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 11/13/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Hazardous waste coolant containers missing information on hazardous waste label.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW

MATICH CORPORATION (Continued) **S108419380**

Violation Source: CERS

Site ID: 397228
Site Name: MATICH CORPORATION
Violation Date: 04-13-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/13/2017. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) Accumulation time for the waste antifreeze has exceeded the 90 day time limit. The accumulation start date for the waste antifreeze drums were missing and disposal records documenting a pickup within 90 days of inspection date were not available for review. The last waste disposal record for the waste antifreeze available for review was dated 2/18/15.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: discuss Hazwaste/inventory
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: SPCC prepared
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-02-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: new manager - discuss hazmat/cers/apsa
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE APSA INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

MATICH CORPORATION (Continued) **S108419380**

Eval Date:	04-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE GENERATOR INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-24-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	397228
Site Name:	MATICH CORPORATION
Site Address:	3231 E 3RD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	01-02-2014
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

MATICH CORPORATION (Continued) **S108419380**

Site ID:	397228
Site Name:	MATICH CORPORATION
Site Address:	3231 E 3RD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	04-13-2017
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:	San Bernardino County Fire Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	397228
Site Name:	MATICH CORPORATION
Site Address:	3231 E 3RD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	04-13-2017
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	397228
Site Name:	MATICH CORPORATION
Site Address:	3231 E 3RD ST
Site City:	SAN BERNARDINO
Site Zip:	92408
Enf Action Date:	04-13-2017
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:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	3231 East 3RD ST.
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	MATICH CORPORATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

MATICH CORPORATION (Continued) **S108419380**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Kerry Moore
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:	Kerry Moore
Entity Title:	Equipment Superintendent
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:	MATICH CORP
Entity Title:	Not reported
Affiliation Address:	PO BOX 10
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 792-7400
Affiliation Type Desc:	Environmental Contact
Entity Name:	Kerry Moore
Entity Title:	Not reported
Affiliation Address:	3231 EAST 3RD STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	MATICH CORPORATION
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) 382-7400
Affiliation Type Desc:	Property Owner
Entity Name:	Stephen Matich (on behalf of Matich Corp)
Entity Title:	Not reported
Affiliation Address:	1596 Harry Sheppard

MATICH CORPORATION (Continued) **S108419380**

Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92408
Affiliation Phone:	(909) 382-7422
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

D13 **MATICH CORP** **RCRA NonGen / NLR** **1024815744**
SE **3231 E 3RD ST** **CAL000314877**
< 1/8 **SAN BERNARDINO, CA 92408**
0.100 mi.
530 ft. **Site 4 of 5 in cluster D**

Relative:
Higher

Actual:
1168 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2006-12-29 00:00:00.0
Handler Name:	MATICH CORP	
Handler Address:		3231 E 3RD ST
Handler City,State,Zip:		SAN BERNARDINO, CA 92408-0000
EPA ID:		CAL000314877
Contact Name:		KERRY MOORE
Contact Address:		3231 E 3RD ST
Contact City,State,Zip:		SAN BERNARDINO, CA 92408
Contact Telephone:		909-991-2170
Contact Fax:		909-382-0054
Contact Email:		KMOORE@MATICHCORP.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:		3231 E 3RD ST
Mailing City,State,Zip:		SAN BERNARDINO, CA 92408-0000
Owner Name:		MATICH CORPORATION
Owner Type:		Other
Operator Name:		KERRY MOORE
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

MATICH CORP (Continued) **1024815744**

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 20:28:50.0
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:	MATICH CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1596 E HARRY SHEPARD BLVD

MATICH CORP (Continued) **1024815744**

Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408-0197
Owner/Operator Telephone: 909-382-7400
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KERRY MOORE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 3231 E 3RD ST
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408
Owner/Operator Telephone: 909-991-2170
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2006-12-29 00:00:00.0
Handler Name: MATICH CORP
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: 23411
NAICS Description: HIGHWAY AND STREET CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C14 **NOBLE METAL LAB** **CA San Bern. Co. Permit** **S106911008**
West **26672 3RD ST** **N/A**
< 1/8 **HIGHLAND, CA 92346**
0.101 mi.
534 ft. **Site 2 of 5 in cluster C**

Relative:
Lower

Actual:
1157 ft.

San Bern. Co. Permit:
Name: NOBLE METAL LAB
Address: 26672 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004984
Owner: sogwap corp

NOBLE METAL LAB (Continued) **S106911008**

Permit Number: PT0001593
Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 11/30/2001

Name: NOBLE METAL LAB
Address: 26672 3RD ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0004984
Owner: sogwap corp
Permit Number: PT0001592
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 11/30/2001

C15 West < 1/8 0.101 mi. 534 ft. **NOBLE METAL LABS INC *D** **RCRA NonGen / NLR** **1025878224**
26672 3RD ST **CAP000007934**
HIGHLAND, CA 92346

Site 3 of 5 in cluster C

Relative: Lower
Actual: 1157 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2007-06-21 00:00:00.0
Handler Name:	NOBLE METAL LABS INC *D
Handler Address:	26672 3RD ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAP000007934
Contact Name:	JEREMY BROWN
Contact Address:	26672 3RD ST
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	800-579-6834
Contact Fax:	Not reported
Contact Email:	Not reported
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:	26672 3RD ST
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
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

NOBLE METAL LABS INC *D (Continued) **1025878224**

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:	2007-07-02 18:57:08.0
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

Historic Generators:

Receive Date:	2007-03-20 00:00:00.0
Handler Name: NOBLE METAL LABS INC	
Federal Waste Generator Description:	Not reported
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

NOBLE METAL LABS INC *D (Continued) **1025878224**

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:	2007-06-21 00:00:00.0
Handler Name: NOBLE METAL LABS INC *D	
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 Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C16 **NOBLE METAL LAB INC *D** **RCRA NonGen / NLR** **1025880480**
West **26672 THIRD ST** **CAP000182386**
< 1/8 **HIGHLAND, CA 92346**
0.101 mi.
534 ft. **Site 4 of 5 in cluster C**

Relative:
Lower

Actual:
1157 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2007-06-28 00:00:00.0
Handler Name: NOBLE METAL LAB INC *D	
Handler Address:	26672 THIRD ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAP000182386
Contact Name:	TOM MANGIONE
Contact Address:	PO BOX 337
Contact City,State,Zip:	HIGHLAND, CA 92374
Contact Telephone:	909-225-9710
Contact Fax:	Not reported
Contact Email:	Not reported
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
Active Site Indicator:	Not reported
State District Owner:	Not reported

NOBLE METAL LAB INC *D (Continued) **1025880480**

State District:	Not reported
Mailing Address:	PO BOX 337
Mailing City,State,Zip:	HIGHLAND, CA 92374
Owner Name:	THOMAS MANGIONE
Owner Type:	Private
Operator Name:	THOMAS MANGIONE
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:	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:	2007-07-02 18:59:22.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

NOBLE METAL LAB INC *D (Continued) **1025880480**

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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D007
Waste Description:	CHROMIUM

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	THOMAS MANGIONE
Legal Status:	Private
Date Became Current:	1976-07-01 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:	THOMAS MANGIONE
Legal Status:	Private
Date Became Current:	1976-07-01 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:	Owner
Owner/Operator Name:	THOMAS MANGIONE
Legal Status:	Private
Date Became Current:	1976-07-01 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:	Owner
Owner/Operator Name:	THOMAS MANGIONE

NOBLE METAL LAB INC *D (Continued) **1025880480**

Legal Status:	Private
Date Became Current:	1976-07-01 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:	2007-06-28 00:00:00.0
Handler Name: NOBLE METAL LAB INC *D	
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

Receive Date:	2007-03-14 00:00:00.0
Handler Name: NOBLE METAL LAB INC	
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

List of NAICS Codes and Descriptions:

NAICS Code:	54138
NAICS Description:	TESTING LABORATORIES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

C17 West < 1/8 0.102 mi. 537 ft. | **JC'S AUTO REPAIR**
26670 3RD ST
HIGHLAND, CA 92346

Site 5 of 5 in cluster C

CA CERS HAZ WASTE | **S105298719**
CA San Bern. Co. Permit | **N/A**
CA CERS

Relative: Lower

Actual: 1157 ft.

CERS HAZ WASTE:

Name:	JC'S AUTO REPAIR
Address:	26670 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	39587
CERS ID:	10040773
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	JC'S AUTO REPAIR
Address:	26670 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004044
Owner:	RUEDA, JUAN CARLOS
Permit Number:	PT0001190
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	05/31/2021

Name:	JC'S AUTO REPAIR
Address:	26670 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0004044
Owner:	RUEDA, JUAN CARLOS
Permit Number:	PT0001189
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	05/31/2021

CERS:

Name:	JC'S AUTO REPAIR
Address:	26670 3RD ST
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	39587
CERS ID:	10040773
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	39587
Site Name:	JC'S AUTO REPAIR
Violation Date:	09-09-2020
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	UPDATE THE HAZARDOUS MATERIALS INVENTORY ITEMS TO DISCLOSE THE NEW FEDERAL HAZARD CATEGORIES. CORRECTIVE ACTION: COMPLY BY SUBMITTING AN ACCURATE AND COMPLETE HAZARDOUS MATERIALS INVENTORY VIA CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP

JC'S AUTO REPAIR (Continued) **S105298719**

Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: LAST HMBP SUBMITTED VIA CERS OCCURRED ON 04/23/2018. CORRECTIVE ACTION: COMPLY BY REVIEWING AND CERTIFYING THE BUSINESS PLAN ANNUALLY.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2020
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 09/09/2020. OBSERVED (2) 30 GALLON DRUMS OF WASTE ANTIFREEZE TO NOT HAVE HAZARDOUS WASTE LABELING. VIOLATION CORRECTED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2014
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 07/08/2015. The last business plan update was received on 08/24/2011. The website is located at http://cers.calepa.ca.gov/. Your CERS I.D. number is 10040773.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 09/09/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) All containers and tanks used to store a hazardous waste must be labeled or marked with the words G hazardous waste;G and include the following information: generator name and

JC'S AUTO REPAIR (Continued) **S105298719**

address, hazardous properties of the waste, composition and physical state of the waste, and the accumulation start date. Observed (5) 30 gallon drums of waste coolant to be missing a hazardous waste label. Violation corrected at the time of the inspection: Waste coolant drums were labeled properly with all the required information by operator.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 09/09/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Observed (5) 30 gallon drums of waste coolant to be missing the accumulation start date. Violation corrected at the time of the inspection: Operator added accumulation start date to waste coolant hazardous waste label. Per operator and file review. The accumulation start date is 03/31/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2020
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: EPA ID NUMBER INACTIVE; CAL000244618 CORRECTIVE ACTION: COMPLY BY SUBMITTING FORM 1358 VIA DTSC.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 39587
Site Name: JC'S AUTO REPAIR
Violation Date: 09-09-2014
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 09/09/2014. Used oil filters must be managed as a hazardous waste unless the filters are drained of free-flowing used oil and processed for scrap metal recycling. Drained used oil filters must not be accumulated on site longer than one year for amounts less than one ton or 180 days for amounts equal or greater than one ton. Containers used to store drain used oil filters must be labeled as G Drained Used Oil FiltersG , marked with the accumulation start date, and closed when not in use. Observed (1) 55 gallon drum of drained used oil filters. The drum had neither the words G Drained Used Oil FiltersG nor accumulation start date. Violation was corrected at time of inspection: Operator labeled drum with the" Drained Used

JC'S AUTO REPAIR (Continued) **S105298719**

Oil FiltersG words, and the accumulation start date. Per operator and record review, accumulation start date is: 03/31/2014.

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-09-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-09-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-09-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-09-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-05-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

JC'S AUTO REPAIR (Continued) **S105298719**

Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	39587
Site Name:	JC'S AUTO REPAIR
Site Address:	26670 3RD ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	09-09-2014
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	39587
Site Name:	JC'S AUTO REPAIR
Site Address:	26670 3RD ST
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	09-09-2014
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:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	39587
Facility Name:	JC'S AUTO REPAIR
Env Int Type Code:	HWG
Program ID:	10040773
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.106700
Longitude:	-117.222219

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	26670 3RD STREET
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	RUEDA, JUAN CARLOS
Entity Title:	Not reported
Affiliation Address:	26670 3rd ST

JC'S AUTO REPAIR (Continued) **S105298719**

Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 659-8970
Affiliation Type Desc:	Parent Corporation
Entity Name:	JC'S AUTO REPAIR
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:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	JUAN C RUEDA
Entity Title:	Not reported
Affiliation Address:	26670 3RD ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	JUAN C RUEDA
Entity Title:	OWNER
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:	Juan Rueda
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) 425-5621

E18 North 1/8-1/4 0.128 mi. 678 ft. | **DEYANIRA REQUENES**
26880 MOSSWAY ST
HIGHLAND, CA 92346

Site 1 of 4 in cluster E

RCRA NonGen / NLR | **1025839214**
CAC003018813

Relative: Higher

Actual: 1165 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-06-07 00:00:00.0
Handler Name:	DEYANIRA REQUENES	
Handler Address:		26880 MOSSWAY ST
Handler City,State,Zip:		HIGHLAND, CA 92346
EPA ID:		CAC003018813
Contact Name:		DEYANIRA REQUENES
Contact Address:		26880 MOSSWAY ST
Contact City,State,Zip:		HIGHLAND, CA 92346
Contact Telephone:		949-290-2505
Contact Fax:		Not reported
Contact Email:		ANAB@PWSEI.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:		26880 MOSSWAY ST
Mailing City,State,Zip:		HIGHLAND, CA 92346
Owner Name:		DEYANIRA REQUENES
Owner Type:		Other
Operator Name:		DEYANIRA REQUENES
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

DEYANIRA REQUENES (Continued) **1025839214**

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:	2019-06-27 14:19:42.0
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:	DEYANIRA REQUENES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26880 MOSSWAY ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	949-290-2505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DEYANIRA REQUENES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26880 MOSSWAY ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	949-290-2505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

DEYANIRA REQUENES (Continued) **1025839214**

Historic Generators:

Receive Date:	2019-06-07 00:00:00.0
Handler Name:	DEYANIRA REQUENES
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

E19 **DEYANIRA REQUENES** **RCRA NonGen / NLR** **1025848027**
North **26880 MOSSWAY ST** **CAC003028051**
1/8-1/4 **HIGHLAND, CA 92346**
0.128 mi.
678 ft. **Site 2 of 4 in cluster E**

Relative:
Higher

Actual:
1165 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-08-06 00:00:00.0
Handler Name:	DEYANIRA REQUENES
Handler Address:	26880 MOSSWAY ST
Handler City,State,Zip:	HIGHLAND, CA 92346-4143
EPA ID:	CAC003028051
Contact Name:	DEYANIRA REQUENES
Contact Address:	26880 MOSSWAY ST
Contact City,State,Zip:	HIGHLAND, CA 92346-4143
Contact Telephone:	949-290-2505
Contact Fax:	Not reported
Contact Email:	ADMIN@VIKINGENVIRO.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:	26880 MOSSWAY ST
Mailing City,State,Zip:	HIGHLAND, CA 92346-4143
Owner Name:	DEYANIRA REQUENES

DEYANIRA REQUENES (Continued) **1025848027**

Owner Type:	Other
Operator Name:	DEYANIRA REQUENES
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
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 15:06:34.0
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

DEYANIRA REQUENES (Continued) **1025848027**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DEYANIRA REQUENES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26880 MOSSWAY ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4143
Owner/Operator Telephone:	949-290-2505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DEYANIRA REQUENES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	26880 MOSSWAY ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-4143
Owner/Operator Telephone:	949-290-2505
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-08-06 00:00:00.0
Handler Name: DEYANIRA REQUENES	
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

F20 ENE 1/8-1/4 0.138 mi. 726 ft. | **MEYER CONSTRUCTORS**
26999 5TH ST
HIGHLAND, CA 92346

Site 1 of 6 in cluster F

CA HIST UST | **U001575099**
N/A

Relative: Higher

Actual: 1173 ft.

HIST UST:

Name:	MEYER CONSTRUCTORS
Address:	26999 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000059681
Facility Type:	Other
Other Type:	PIPELINE CONTRACTORS
Contact Name:	EDWARD J. MEYER
Telephone:	7148621267
Owner Name:	MEYER CONSTRUCTORS
Owner Address:	26999 5TH STREET
Owner City,St,Zip:	HIGHLAND, CA 92346
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00007500
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, Stock Inventor

F21 ENE 1/8-1/4 0.138 mi. 726 ft. | **MAYFLOWER CONTRACT SERVICES**
26999 5TH ST
HIGHLAND, CA 92346

Site 2 of 6 in cluster F

CA HIST UST **S117704863**
CA NPDES **N/A**
CA CIWQS

Relative: Higher

Actual: 1173 ft.

HIST UST:

Name:	MEYER CONSTRUCTORS
Address:	26999 5TH STREET
City,State,Zip:	HIGHLAND, CA 92346
File Number:	0002A252
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A252.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

NPDES:

Name:	MAYFLOWER CONTRACT SERVICES
Address:	26999 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
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 36I004684
Regulatory Measure Type:	Industrial
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:	04/07/1992

MAYFLOWER CONTRACT SERVICES (Continued) **S117704863**

Operator Name:	Mayflower Contract Services
Operator Address:	PO Box 7941
Operator City:	Shawnee Mission
Operator State:	Kansas
Operator Zip:	66207

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	287895
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I004684
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:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	04/07/1992
Status:	Terminated
Status Date:	04/07/1992
Place Size:	1
Place Size Unit:	Acres
Contact:	Cheryl Seifert
Contact Title:	Not reported
Contact Phone:	415-864-3337
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Mayflower Contract Services
Operator Address:	PO Box 7941
Operator City:	Shawnee Mission
Operator State:	Kansas
Operator Zip:	66207
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:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	415-495-1800
Emergency Phone Ext:	Not reported

MAYFLOWER CONTRACT SERVICES (Continued) **S117704863**

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
Receiving Water Name:	Santa Ana River
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	4111-Local and Suburban Transit
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Name:	MAYFLOWER CONTRACT SERVICES
Address:	26999 5TH ST
City,State,Zip:	HIGHLAND, CA 92346
Agency:	Mayflower Contract Services
Agency Address:	PO Box 7941, Shawnee Mission, KS 66207
Place/Project Type:	Industrial - Local and Suburban Transit
SIC/NAICS:	4111
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I004684
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	04/07/1992
Termination Date:	Not reported
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:	34.10828
Longitude:	-117.21534

D22 SE 1/8-1/4 0.144 mi. 760 ft. | **NORTON AFB LANDFILL**
I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408

Site 5 of 5 in cluster D

CA SWF/LF **S105247958**
CA CERS **N/A**

Relative: Higher

Actual: 1171 ft.

SWF/LF (SWIS):

Name:	NORTON AFB LANDFILL
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	STATE
Facility ID:	36-AA-0312
SWIS Number:	36-AA-0312
Point of Contact:	Dawn Liang
Is Archived:	No
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Unpermitted

Activity:

SWIS Number:	36-AA-0312
Site Name:	Norton AFB Landfill
Activity:	Solid Waste Disposal Site
Activity Is Archived:	No
Category:	Disposal
Activity Classification:	Solid Waste Disposal Site
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Semi-annual
Throughput:	Not reported
Throughput Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	Not reported
Capacity Units:	Not reported
Total Acreage:	0
Disposal Acreage:	0
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Dawn Liang
Site Operational Status:	Closed
Site Regulatory Status:	Unpermitted
Site Is Archived:	No

NORTON AFB LANDFILL (Continued) **S105247958**

Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	San Bernardino
Street Address:	I-10/US 395 Former Norton AFB
City:	San Bernardino
State:	CA
ZIP Code:	92408
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Owner:

SWIS Number:	36-AA-0312
Owner:	US Dept Of Air Force-Norton Afb
Owner Address:	Headqrtrs Co3d Combat Support Grp (Mac)
Owner City:	Norton Afb
Owner State:	CA
Owner Zip:	92409
Site Name:	Norton AFB Landfill
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Unpermitted
Latitude:	34.10517
Longitude:	-117.21563
Is Archived:	No
Started On:	8/16/1994
Contact Name:	Gary Underwood Col
Contact Title:	Usaf Base Commander
Contact Email:	Not reported
Contact Phone:	(909) 382-2444

CERS:

Name:	NORTON AFB LANDFILL
Address:	I-10/US 395 FORMER NORTON AFB
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	510537
CERS ID:	36-AA-0312
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	US Dept Of Air Force-Norton Afb
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Norton Afb
Affiliation State:	CA
Affiliation Country:	Not reported

NORTON AFB LANDFILL (Continued) **S105247958**

Affiliation Zip: 92409
Affiliation Phone: 9093822444

F23 **EJ MEYER** **RCRA NonGen / NLR** **1024804545**
ENE **26999 E 5TH STREET** **CAL000258671**
1/8-1/4 **HIGHLAND, CA 92346**
0.151 mi.
795 ft. **Site 3 of 6 in cluster F**

Relative:
Higher

Actual:
1174 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2002-09-04 00:00:00.0
Handler Name:	EJ MEYER
Handler Address:	26999 E 5TH STREET
Handler City,State,Zip:	HIGHLAND, CA 92346-0000
EPA ID:	CAL000258671
Contact Name:	RICHARD HAMMACK
Contact Address:	PO BOX 277
Contact City,State,Zip:	HIGHLAND, CA 92346
Contact Telephone:	909-425-4025
Contact Fax:	909-425-4020
Contact Email:	SHAMMOND@EJMEYER.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 277
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	EJ MEYER CO
Owner Type:	Other
Operator Name:	RICHARD HAMMACK
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

EJ MEYER (Continued) **1024804545**

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 15:46:25.0
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:	EJ MEYER CO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 277
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346-0000
Owner/Operator Telephone:	909-425-4025
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RICHARD HAMMACK
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 277
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346

EJ MEYER (Continued) **1024804545**

Owner/Operator Telephone: 909-425-4025
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2002-09-04 00:00:00.0
Handler Name: EJ MEYER
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: 54133
NAICS Description: ENGINEERING SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F24 **MAYFLOWER CONTRACT SERVICES** **RCRA-SQG** **1000472844**
ENE **26999 E 5TH STREET** **FINDS** **CAD982433757**
1/8-1/4 **HIGHLAND, CA 92346** **ECHO**
0.151 mi.
795 ft. **Site 4 of 6 in cluster F**

Relative:
Higher
Actual:
1174 ft.

RCRA-SQG:
Date Form Received by Agency: 1996-09-01 00:00:00.0
Handler Name: MAYFLOWER CONTRACT SERVICES
Handler Address: 26999 E 5TH STREET
Handler City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAD982433757
Contact Name: Not reported
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities

MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

State District Owner:	CA
State District:	4
Mailing Address:	P O BOX 682
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	NOT REQUIRED
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:	2002-06-27 03:33:44.0
Recognized Trader-Importer:	No

MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

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:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MAYFLOWER CONTRACT SERV
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-09-01 00:00:00.0
Handler Name:	MAYFLOWER CONTRACT SERVICES
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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

Receive Date:	1990-10-15 00:00:00.0
Handler Name:	MAYFLOWER CONTRACT SERVICES
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	CA
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

MAYFLOWER CONTRACT SERVICES (Continued) **1000472844**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002810860

Click Here:

Environmental Interest/Information System:
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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000472844
Registry ID: 110002810860
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002810860
Name: MAYFLOWER CONTRACT SERVICES
Address: 26999 E 5TH STREET
City,State,Zip: HIGHLAND, CA 92346

F25 **E.J. MEYER COMPANY** **CA CERS HAZ WASTE** **S109598572**
ENE **26999 E 5TH ST** **CA San Bern. Co. Permit** **N/A**
1/8-1/4 **HIGHLAND, CA 92346** **CA CERS**
0.151 mi.
795 ft. **Site 5 of 6 in cluster F**

Relative:
Higher

Actual:
1174 ft.

CERS HAZ WASTE:
Name: E.J. MEYER COMPANY
Address: 26999 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 27025
CERS ID: 10054540
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: E.J. MEYER COMPANY
Address: 26999 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346

E.J. MEYER COMPANY (Continued) **S109598572**

Region: SAN BERNARDINO
Facility ID: FA0012324
Owner: E.J. MEYER COMPANY
Permit Number: PT0021618
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2022

Name: E.J. MEYER COMPANY
Address: 26999 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Region: SAN BERNARDINO
Facility ID: FA0012324
Owner: E.J. MEYER COMPANY
Permit Number: PT0021617
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2022

CERS:
Name: E.J. MEYER COMPANY
Address: 26999 E 5TH ST
City,State,Zip: HIGHLAND, CA 92346
Site ID: 27025
CERS ID: 10054540
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 27025
Site Name: E.J. MEYER COMPANY
Violation Date: 01-03-2018
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description: Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes: Returned to compliance on 02/05/2018. Observed multiple 5 gallon open containers to contain drained used oil filters. Compliance Requirement: Sign the Certificate of Compliance in attestation that all drained used oil filters stored on site have either been properly disposed of or containerized in a closed rainproof container.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 27025
Site Name: E.J. MEYER COMPANY
Violation Date: 01-03-2018
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/05/2018. Observed (2) ~122 cubic foot cylinders of oxygen, and (2) ~100 cubic foot cylinders of acetylene that were not disclosed on the most recent hazardous materials business plan on 02/09/2017.
Violation Division: San Bernardino County Fire Department

E.J. MEYER COMPANY (Continued) **S109598572**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 27025
Site Name: E.J. MEYER COMPANY
Violation Date: 01-05-2021
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.
Violation Notes: Returned to compliance on 01/12/2021. Last hazardous waste transport occurred on 05/11/2020, which exceeds the accumulation time frame. Corrective Action: Comply by disposing of hazardous waste within the accumulation time limit, by submitting records and the CofC.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 27025
Site Name: E.J. MEYER COMPANY
Violation Date: 01-03-2018
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/03/2018. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed (1) 55 gallon drum of waste coolant to be missing appropriate hazardous waste labeling. Violation was corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 27025
Site Name: E.J. MEYER COMPANY
Violation Date: 01-03-2018
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/03/2018. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Observed (1) 480 gallon aboveground storage tank of used lubricating oil to have incomplete hazardous waste labeling; label was missing facility name, physical address, physical characteristics and hazardous properties and accumulation start date. Violation was corrected on site at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 27025

E.J. MEYER COMPANY (Continued) **S109598572**

Site Name:	E.J. MEYER COMPANY
Violation Date:	01-05-2021
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 01/05/2021. Observed (2) 5 5gallon drums of waste diesel to not have hazardous waste labeling. Violation corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2021
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-05-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-12-2014
Violations Found:	No
Eval Type:	Routine done by local agency

E.J. MEYER COMPANY (Continued) **S109598572**

Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION. FUELED VEHICLE.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Affiliation:

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: P.O. BOX 277
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: SALLY HAMMOND
Entity Title: Not reported
Affiliation Address: PO BOX 277
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92346
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: E.J. MEYER COMPANY
Entity Title: Not reported
Affiliation Address: PO BOX 277
Affiliation City: HIGHLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92346
Affiliation Phone: (909) 425-4025

Affiliation Type Desc: Operator
Entity Name: E. J. MEYER COMPANY

E.J. MEYER COMPANY (Continued) **S109598572**

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) 425-4025

Affiliation Type Desc:	Parent Corporation
Entity Name:	E.J. MEYER 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

E26
NNE
1/8-1/4
0.163 mi.
862 ft.

CITY OF HIGHLAND-OPERATIONS YARD
7935 CENTRAL
HIGHLAND, CA 92346

CA CERS HAZ WASTE **S109349300**
CA San Bern. Co. Permit **N/A**
CA CERS

Site 3 of 4 in cluster E

Relative:
Higher

Actual:
1167 ft.

CERS HAZ WASTE:

Name:	CITY OF HIGHLAND-OPERATIONS YARD
Address:	7935 CENTRAL
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	19625
CERS ID:	10053832
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	CITY OF HIGHLAND-OPERATIONS YARD
Address:	7935 CENTRAL
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0011950
Owner:	CITY OF HIGHLAND
Permit Number:	PT0021004
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	12/31/2021

Name:	CITY OF HIGHLAND-OPERATIONS YARD
Address:	7935 CENTRAL
City,State,Zip:	HIGHLAND, CA 92346
Region:	SAN BERNARDINO
Facility ID:	FA0011950
Owner:	CITY OF HIGHLAND
Permit Number:	PT0021005
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	12/31/2021

CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

CERS:

Name:	CITY OF HIGHLAND-OPERATIONS YARD
Address:	7935 CENTRAL
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	19625
CERS ID:	10053832
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	19625
Site Name:	CITY OF HIGHLAND-OPERATIONS YARD
Violation Date:	06-24-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/24/2020. Last HMBP submitted via CERS occurred on 01/04/2019. Violation corrected on site; operator resubmitted the HMBP during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	19625
Site Name:	CITY OF HIGHLAND-OPERATIONS YARD
Violation Date:	06-24-2020
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/24/2020. The Federal hazard categories require update to the new hazard category system. Violation corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-24-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-24-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	MELISSA MORGAN
Entity Title:	Not reported
Affiliation Address:	27215 BASELINE ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Affiliation Type Desc:	Legal Owner
Entity Name:	CITY OF HIGHLAND
Entity Title:	Not reported
Affiliation Address:	27215 BASELINE ST
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92346
Affiliation Phone:	(909) 864-8732

Affiliation Type Desc:	Operator
Entity Name:	Jim Richardson
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:	(951) 775-8366

Affiliation Type Desc:	Document Preparer
Entity Name:	Carlos Florez
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:	7935 CENTRAL
Affiliation City:	HIGHLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Melissa Morgan
Entity Title:	Public Services 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:	Parent Corporation
Entity Name:	CITY OF HIGHLAND
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

CITY OF HIGHLAND-OPERATIONS YARD (Continued) **S109349300**

Affiliation Zip: Not reported
Affiliation Phone: Not reported

E27 NNE 1/8-1/4 0.163 mi. 862 ft. **CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832** **RCRA NonGen / NLR** **1024822177**
7935 CENTRAL AVE **CAL000339766**
HIGHLANDS, CA 92346

Site 4 of 4 in cluster E

Relative: Higher
Actual: 1167 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2009-01-15 00:00:00.0
Handler Name:	CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832
Handler Address:	7935 CENTRAL AVE
Handler City,State,Zip:	HIGHLANDS, CA 92346
EPA ID:	CAL000339766
Contact Name:	JIM RICHARDSON
Contact Address:	7935 CENTRAL AVE
Contact City,State,Zip:	HIGHLANDS, CA 92346
Contact Telephone:	909-863-0284
Contact Fax:	909-863-0239
Contact Email:	MMORGAN@CITYOFHIGHLAND.ORG
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:	27215 BASELINE ST
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	CITY OF HIGHLAND
Owner Type:	Other
Operator Name:	JIM RICHARDSON
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

CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832 (Continued) **1024822177**

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 20:31:00.0
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:	JIM RICHARDSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7935 CENTRAL AVE
Owner/Operator City,State,Zip:	HIGHLANDS, CA 92346
Owner/Operator Telephone:	909-863-0284
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CITY OF HIGHLAND
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27215 BASELINE ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346

CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832 (Continued) **1024822177**

Owner/Operator Telephone: 909-864-6861
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2009-01-15 00:00:00.0
Handler Name: CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832
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: 92111
NAICS Description: EXECUTIVE OFFICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F28 **CSR AIR CONDITIONING & HEATING, INC.** **RCRA NonGen / NLR** **1024804129**
ENE **27015 E 5TH ST** **CAL000256584**
1/8-1/4 **HIGHLAND, CA 92346**
0.165 mi.
873 ft. **Site 6 of 6 in cluster F**

Relative:
Higher

Actual:
1175 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2002-07-26 00:00:00.0
Handler Name: CSR AIR CONDITIONING & HEATING, INC.
Handler Address: 27015 E 5TH ST
Handler City,State,Zip: HIGHLAND, CA 92346
EPA ID: CAL000256584
Contact Name: CHRIS LEWIS
Contact Address: 27015 E 5TH ST
Contact City,State,Zip: HIGHLAND, CA 92346
Contact Telephone: 909-862-8600
Contact Fax: 909-862-2734
Contact Email: CSAIRHEATINC@HOTMAIL.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

CSR AIR CONDITIONING & HEATING, INC. (Continued) **1024804129**

State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 889
Mailing City,State,Zip:	HIGHLAND, CA 92346-0000
Owner Name:	MARK LEWIS
Owner Type:	Other
Operator Name:	CHRIS LEWIS
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 15:46:18.0
Recognized Trader-Importer:	No

CSR AIR CONDITIONING & HEATING, INC. (Continued) **1024804129**

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:	CHRIS LEWIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	27015 E 5TH ST
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MARK LEWIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	35786 PANORAMA DR
Owner/Operator City,State,Zip:	YUCAIPA, CA 92399
Owner/Operator Telephone:	909-208-8008
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2002-07-26 00:00:00.0
Handler Name:	CSR AIR CONDITIONING & HEATING, 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:	23511
NAICS Description:	PLUMBING, HEATING, AND AIR-CONDITIONING CONTRACTORS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

CSR AIR CONDITIONING & HEATING, INC. (Continued) **1024804129**

Evaluation Action Summary:
Evaluations: No Evaluations Found

G29 **NORTON AIR FORCE BASE - NORTON A F B BLDG 228** **CA UST** **U004267914**
SSE **W STREET** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92409**
0.180 mi.
948 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
1166 ft.

MILITARY UST SITES:

Name:	NORTON AIR FORCE BASE - NORTON A F B BLDG 228
Address:	W STREET
City,State,Zip:	SAN BERNARDINO, CA 92409
Global ID:	T0607100350
Case Type:	Military UST Site
Status:	Completed - Case Closed
Status Date:	07/27/1995
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	PAH
Local Agency:	SAN BERNARDINO COUNTY
RB Case Number:	083602582T
Loc Case Number:	0
File Location:	Not reported
Potential Contaminants of Concern:	Diesel
Potential Media Affected:	Soil
Site History:	Not reported
Begin Date:	1989-06-29 00:00:00
How Discovered:	Tank Closure
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	34.1040840664264
Longitude:	-117.217901249683
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100350

G30 **NORTON AIR FORCE BASE - NORTON A F B BLDG 228** **CA CERS TANKS** **S123539348**
SSE **W STREET** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92409**
0.180 mi.
948 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
1166 ft.

CERS TANKS:

Name:	NORTON AIR FORCE BASE - NORTON A F B BLDG 228
Address:	W STREET
City,State,Zip:	SAN BERNARDINO, CA 92409
Site ID:	230798
CERS ID:	T0607100350
CERS Description:	Military Underground Storage Tank Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500

NORTON AIR FORCE BASE - NORTON A F B BLDG 228 (Continued) **S123539348**

Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9093868419

H31 **COUNTY FIRE-HHW PROGRAM MAIN STAT** **CA AST** **S104762432**
SW **2824 E W ST** **CA CERS HAZ WASTE** **N/A**
1/8-1/4 **SAN BERNARDINO, CA 92415** **CA MWMP**
0.197 mi. **CA San Bern. Co. Permit**
1042 ft. **Site 1 of 6 in cluster H** **CA CERS**

Relative:
Lower

Actual:
1158 ft.

AST:

Name:	COUNTY FIRE-HHW PROGRAM MAIN STAT
Address:	2824 E W ST
City/Zip:	SAN BERNARDINO,92415
Certified Unified Program Agencies:	Not reported
Owner:	HOUSEHOLD HAZARDOUS WASTE
Total Gallons:	Not reported
CERSID:	10037830
Facility ID:	FA0002298
Business Name:	San Bernardino County Fire Department - HHW
Phone:	(909) 382-5401
Fax:	(909) 382-5413
Mailing Address:	2824 EAST "W" ST
Mailing Address City:	SAN BERNARDINO
Mailing Address State:	CA
Mailing Address Zip Code:	Not reported
Operator Name:	Monica Ronchetti
Operator Phone:	(909) 382-5401
Owner Phone:	(909) 382-5401
Owner Mail Address:	2824 E 'W" ST, STE 302
Owner State:	CA
Owner Zip Code:	Not reported
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAH111000474

CERS HAZ WASTE:

Name:	COUNTY FIRE-HHW PROGRAM MAIN STAT

COUNTY FIRE-HHW PROGRAM MAIN STAT (Continued) **S104762432**

Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Site ID: 22059
CERS ID: 10037830
CERS Description: Hazardous Waste Generator

Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Site ID: 22059
CERS ID: 10037830
CERS Description: Household Hazardous Waste Collection

MWMP:
Name: SAN BERNARDINO COUNTY FIRE DEPT
Address: 2824 EAST "W" ST
City,State,Zip: SAN BERNARDINO, CA 92415
Facility Type: Medical Waste Management Program
Contact Name: Not reported
Contact Phone: 909-382-5401
Registration Number: 1676

San Bern. Co. Permit:
Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Region: SAN BERNARDINO
Facility ID: FA0002298
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008195
Permit Category: SUPER LARGE QUANTITY GENERATOR
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2005

Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Region: SAN BERNARDINO
Facility ID: FA0002298
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0016780
Permit Category: UW HANDLER WITH ANOTHER CUPA PERMIT
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2005

Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Region: SAN BERNARDINO
Facility ID: FA0002298
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008194
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2005

COUNTY FIRE-HHW PROGRAM MAIN STAT (Continued) **S104762432**

Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Region: SAN BERNARDINO
Facility ID: FA0002298
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008200
Permit Category: PBR - HHW ANNUAL FEE
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2005

Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Region: SAN BERNARDINO
Facility ID: FA0002298
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0030452
Permit Category: PBR ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 12/31/2014

CERS:
Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Site ID: 22059
CERS ID: 10037830
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 22059
Site Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Violation Date: 05-25-2017
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/14/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-25-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - HW
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-25-2017
Violations Found: No

COUNTY FIRE-HHW PROGRAM MAIN STAT (Continued) **S104762432**

Eval Type: Routine done by local agency
Eval Notes: INSPECTION - PBR
Eval Division: San Bernardino County Fire Department
Eval Program: PBR
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-25-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-19-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HHW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-19-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-19-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-25-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - HHW
Eval Division: San Bernardino County Fire Department
Eval Program: HHW
Eval Source: CERS

Enforcement Action:
Site ID: 22059
Site Name: COUNTY FIRE-HHW PROGRAM MAIN STAT
Site Address: 2824 E W ST
Site City: SAN BERNARDINO
Site Zip: 92415

COUNTY FIRE-HHW PROGRAM MAIN STAT (Continued) **S104762432**

Enf Action Date:	05-25-2017
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Michael VanGese
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:	2824 EAST "W" ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0799
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	San Bernardino County Fire Department - HHW
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:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOSE RODRIGUEZ
Entity Title:	Not reported
Affiliation Address:	2824 EAST "W" STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0799

COUNTY FIRE-HHW PROGRAM MAIN STAT (Continued) **S104762432**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jose Rodriguez
Entity Title:	SUPERVISING HMS
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:	HOUSEHOLD HAZARDOUS WASTE
Entity Title:	Not reported
Affiliation Address:	2824 E "W" ST, STE 302
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92415-0799
Affiliation Phone:	(909) 382-5401
Affiliation Type Desc:	Operator
Entity Name:	JOSE RODRIGUEZ
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) 382-5401

H32 **SAN BERNARDINO CTY FD HHW PROGRAM** **RCRA NonGen / NLR** **1024784477**
SW **2824 E W ST BLDG 302** **CAH111000474**
1/8-1/4 **SAN BERNARDINO, CA 92415**
0.197 mi.
1042 ft. **Site 2 of 6 in cluster H**

Relative:
Lower

Actual:
1158 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-10-29 00:00:00.0
Handler Name:	SAN BERNARDINO CTY FD HHW PROGRAM
Handler Address:	2824 E W ST BLDG 302
Handler City,State,Zip:	SAN BERNARDINO, CA 92415
EPA ID:	CAH111000474
Contact Name:	JOSEPH REYES
Contact Address:	E W ST BLDG 302
Contact City,State,Zip:	SAN BERNARDINO, CA 92415
Contact Telephone:	909-382-5401
Contact Fax:	Not reported
Contact Email:	JREYES@SBCFIRE.ORG
Contact Title:	ENVIRONMENTAL SPECIALIST
EPA Region:	09
Land Type:	District
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported

SAN BERNARDINO CTY FD HHW PROGRAM (Continued) **1024784477**

Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	E W ST BLDG 302
Mailing City,State,Zip:	SAN BERNARDINO, CA 92415
Owner Name:	SB CTY FD
Owner Type:	County
Operator Name:	SB CTY FD
Operator Type:	County
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	Yes
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
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:	2019-11-18 19:05:04.0

SAN BERNARDINO CTY FD HHW PROGRAM (Continued) **1024784477**

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:	SB CTY FD
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PETER BRIERTY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-387-3200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SB CTY FD
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2824 E W ST BLDG 302
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SB CTY FD
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SAN BERNARDINO CTY FD HHW PROGRAM (Continued) **1024784477**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PETER BRIERTY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-387-3200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SB CTY FD
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2824 E W ST BLDG 302
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SB CTY FD
Legal Status:	County
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PETER BRIERTY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	385 NORTH ARROWHEAD AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0153
Owner/Operator Telephone:	909-387-3200
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-10-04 00:00:00.0
Handler Name:	SAN BERNARDINO CTY FD HHW PROGRAM
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

SAN BERNARDINO CTY FD HHW PROGRAM (Continued) **1024784477**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2019-10-08 00:00:00.0
Handler Name: SAN BERNARDINO CTY FD HHW PROGRAM
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: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2019-10-18 00:00:00.0
Handler Name: SAN BERNARDINO CTY FD HHW PROGRAM
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: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 2019-10-29 00:00:00.0
Handler Name: SAN BERNARDINO CTY FD HHW PROGRAM
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
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: No
Electronic Manifest Broker: No

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

H33 SW 1/8-1/4 0.197 mi. 1042 ft. | **RICHARD SEWELL TRAINING CTR**
2824 E W ST BLDG 302
SAN BERNARDINO, CA 92408

CA AST | **S109349303**
CA San Bern. Co. Permit | **N/A**
CA CERS

Site 3 of 6 in cluster H

Relative: Lower
Actual: 1158 ft.

AST:

Name:	COUNTY FIRE-VEHICLE SERVICES
Address:	2824 E W
City/Zip:	SAN BERNARDINO,
Certified Unified Program Agencies:	San Bernardino
Owner:	SAN BERNARDINO COUNTY FIRE DEP
Total Gallons:	2,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

San Bern. Co. Permit:

Name:	RICHARD SEWELL TRAINING CTR
Address:	2824 E W ST BLDG 302
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0013474
Owner:	SAN BERNARDINO COUNTY / FIRE DEPT
Permit Number:	PT0023792
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	09/30/2021

Name:	COUNTY FIRE-VEHICLE SERVICES
Address:	2824 E W ST BLDG 302
City,State,Zip:	SAN BERNARDINO, CA 92408
Region:	SAN BERNARDINO
Facility ID:	FA0002351
Owner:	SBCo FLEET MANAGEMENT DEPT
Permit Number:	PT0020852
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE

RICHARD SEWELL TRAINING CTR (Continued) **S109349303**

Expiration Date: 05/31/2014

Name: CNTY OF SB FLEET MGMT DEPT
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0014075
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0024734
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Name: CNTY OF SB FLEET MGMT DEPT
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0014075
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0024735
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

Name: COUNTY FIRE-VEHICLE SERVICES
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0002351
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0016621
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2013

Name: COUNTY FIRE-VEHICLE SERVICES
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0002351
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0020458
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 05/31/2012

Name: COUNTY FIRE-VEHICLE SERVICES
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0002351
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0016622
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2006

RICHARD SEWELL TRAINING CTR (Continued) **S109349303**

Name: COUNTY FIRE-VEHICLE SERVICES
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0002351
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0008089
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/1998

Name: COUNTY FIRE-VEHICLE SERVICES
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0002351
Owner: SBCo FLEET MANAGEMENT DEPT
Permit Number: PT0008090
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/1997

CERS:
Name: RICHARD SEWELL TRAINING CTR
Address: 2824 E W ST BLDG 302
City,State,Zip: SAN BERNARDINO, CA 92408
Site ID: 147750
CERS ID: 10311709
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 147750
Site Name: RICHARD SEWELL TRAINING CTR
Violation Date: 10-07-2015
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 12/03/2018. To date, no business plan information has not been inputted into the CERS system.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 147750
Site Name: RICHARD SEWELL TRAINING CTR
Violation Date: 10-07-2015
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 12/03/2018. To date, a CERS submission has not taken place.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP

RICHARD SEWELL TRAINING CTR (Continued) **S109349303**

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:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-RSTC
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	147750
Site Name:	RICHARD SEWELL TRAINING CTR
Site Address:	2824 E W ST BLDG 302
Site City:	SAN BERNARDINO
Site Zip:	92408
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:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Document Preparer
Entity Name:	OFFICE ASSISTANT 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

RICHARD SEWELL TRAINING CTR (Continued) **S109349303**

Affiliation Type Desc:	Legal Owner
Entity Name:	SAN BERNARDINO COUNTY FIRE DEP
Entity Title:	Not reported
Affiliation Address:	157 W 5TH ST, 2ND FLOOR
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92415-0451
Affiliation Phone:	(909) 387-5974

Affiliation Type Desc:	Parent Corporation
Entity Name:	RICHARD SEWELL TRAINING CTR
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:	Timothy Porter
Entity Title:	Not reported
Affiliation Address:	2824 EAST W ST, BLDG 302
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2824 EAST W STREET, BLDG 302
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92408
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	SANDRA QUIROZ
Entity Title:	SANDRA QUIROZ
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:	Sandra Quiroz
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

RICHARD SEWELL TRAINING CTR (Continued) **S109349303**

Affiliation Zip: Not reported
Affiliation Phone: (909) 382-5531

H34
SW
1/8-1/4
0.197 mi.
1042 ft.

SBCO FIRE HAZ WASTE STORGE BIN
2824 E W ST
SAN BERNARDINO, CA 92415

CA CERS HAZ WASTE **S123533644**
CA CERS **N/A**

Site 4 of 6 in cluster H

Relative:
Lower

Actual:
1158 ft.

CERS HAZ WASTE:
Name: SBCO FIRE HAZ WASTE STORGE BIN
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Site ID: 65457
CERS ID: 10051069
CERS Description: Hazardous Waste Generator

CERS:
Name: SBCO FIRE HAZ WASTE STORGE BIN
Address: 2824 E W ST
City,State,Zip: SAN BERNARDINO, CA 92415
Site ID: 65457
CERS ID: 10051069
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-09-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-09-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ER storage bin
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2014
Violations Found: No
Eval Type: Routine done by local agency

SBCO FIRE HAZ WASTE STORGE BIN (Continued) **S123533644**

Eval Notes:	ER storage bin
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE GENERATOR INSPECTION-SBC FIRE ER BIN
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-05-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-SB COUNTY FIRE ER BIN
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	SBCO FIRE DEPT HAZ MATL'S DIV
Entity Title:	Not reported
Affiliation Address:	620 S 'E' ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	SBCO FIRE DEPT HAZ MAT DIVISION
Entity Title:	Not reported

SBCO FIRE HAZ WASTE STORGE BIN (Continued) **S123533644**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Legal Owner
Entity Name:	SBCO FIRE DEPT HAZ MAT DIVISN
Entity Title:	Not reported
Affiliation Address:	620 S 'E' ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92415
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Parent Corporation
Entity Name:	SBCO FIRE HAZ WASTE STORGE BIN
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

H35 **SAN BERNARDINO COUNTY FIRE DEPT** **RCRA-SQG** **1004675453**
SW **2824 E W ST** **FINDS** **CAR000073072**
1/8-1/4 **SAN BERNARDINO, CA 92408** **ECHO**
0.197 mi.
1042 ft. **Site 5 of 6 in cluster H**

Relative:
Lower

Actual:
1158 ft.

RCRA-SQG:

Date Form Received by Agency:	2000-05-10 00:00:00.0
Handler Name:	SAN BERNARDINO COUNTY FIRE DEPT
Handler Address:	2824 E W ST
Handler City,State,Zip:	SAN BERNARDINO, CA 92408
EPA ID:	CAR000073072
Contact Name:	DAVE THOMPSON
Contact Address:	2824 E W ST
Contact City,State,Zip:	SAN BERNARDINO, CA 92408
Contact Telephone:	909-388-4211
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
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
State District:	Not reported
Mailing Address:	2824 E W ST
Mailing City,State,Zip:	SAN BERNARDINO, CA 92408

SAN BERNARDINO COUNTY FIRE DEPT (Continued) **1004675453**

Owner Name:	COUNTY OF SAN BERNARDINO FIRE
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
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:	2002-10-07 16:36:50.0
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

SAN BERNARDINO COUNTY FIRE DEPT (Continued) **1004675453**

Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: COUNTY OF SAN BERNARDINO FIRE
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 157 W FIFTH ST
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92415-0450
Owner/Operator Telephone: 909-387-5958
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2000-05-10 00:00:00.0
Handler Name: SAN BERNARDINO COUNTY FIRE DEPT
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: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002936985

Click Here:

Environmental Interest/Information System:

SAN BERNARDINO COUNTY FIRE DEPT (Continued) **1004675453**

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004675453
Registry ID:	110002936985
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002936985
Name:	SAN BERNARDINO COUNTY FIRE DEPT
Address:	2824 E W ST
City,State,Zip:	SAN BERNARDINO, CA 92408

H36 **SAN BERNARDINO COUNTY FIRE - HHW DIVISION** **RCRA NonGen / NLR** **1024807027**
SW **2824 E W ST** **CAL000272339**
1/8-1/4 **SAN BERNARDINO, CA 92415**
0.197 mi.
1042 ft. **Site 6 of 6 in cluster H**

Relative:
Lower

Actual:
1158 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2003-06-25 00:00:00.0
Handler Name:	SAN BERNARDINO COUNTY FIRE - HHW DIVISION
Handler Address:	2824 E W ST
Handler City,State,Zip:	SAN BERNARDINO, CA 92415
EPA ID:	CAL000272339
Contact Name:	MICHAEL VANGESE
Contact Address:	2824 EAST "W" STREET
Contact City,State,Zip:	SAN BERNARDINO, CA 92415-0799
Contact Telephone:	909-382-5401
Contact Fax:	909-382-5413
Contact Email:	MVANGESE@SBCFIRE.ORG
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:	2824 E "W" ST
Mailing City,State,Zip:	SAN BERNARDINO, CA 92415-0799
Owner Name:	SAN BERNARDINO COUNTY FIRE
Owner Type:	Other
Operator Name:	MICHAEL VANGESE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No

SAN BERNARDINO COUNTY FIRE - HHW DIVISION (Continued) **1024807027**

Mixed Waste Generator:	No
Transporter Activity:	Yes
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 20:25:06.0
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

SAN BERNARDINO COUNTY FIRE - HHW DIVISION (Continued) **1024807027**

Owner/Operator Name:	MICHAEL VANGESE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2824 EAST "W" STREET
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0799
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAN BERNARDINO COUNTY FIRE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2824 E "W" ST
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92415-0799
Owner/Operator Telephone:	909-382-5401
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2003-06-25 00:00:00.0
Handler Name:	SAN BERNARDINO COUNTY FIRE - HHW DIVISION
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

37 ENE 1/8-1/4 0.214 mi. 1128 ft. | **PENSKE**
27056 5TH ST
HIGHLAND, CA 92346 | **RCRA NonGen / NLR** | **1025860751**
CAC003041416

Relative: Higher

Actual: 1178 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-11-01 00:00:00.0
Handler Name:	PENSKE	
Handler Address:		27056 5TH ST
Handler City,State,Zip:		HIGHLAND, CA 92346-4210
EPA ID:		CAC003041416
Contact Name:		SHUAN LONG
Contact Address:		2675 MORGANTOWN RD
Contact City,State,Zip:		READING, PA 19607-9676
Contact Telephone:		440-349-2700
Contact Fax:		Not reported
Contact Email:		SLONG@ERTSONLINE.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:		2675 MORGANTOWN RD
Mailing City,State,Zip:		READING, PA 19607-9676
Owner Name:		PENSKE PEARLMAN
Owner Type:		Other
Operator Name:		SHUAN LONG
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

PENSKE (Continued) **1025860751**

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:	2019-11-08 14:10:13.0
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:	SHUAN LONG
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2675 MORGANTOWN RD
Owner/Operator City,State,Zip:	READING, PA 19607-9676
Owner/Operator Telephone:	440-349-2700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PENSKE PEARLMAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2675 MORGANTOWN RD
Owner/Operator City,State,Zip:	READING, PA 19607-9676
Owner/Operator Telephone:	440-349-2700
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

PENSKE (Continued) **1025860751**

Historic Generators:

Receive Date:	2019-11-01 00:00:00.0
Handler Name:	PENSKE
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:	336390
NAICS Description:	OTHER MOTOR VEHICLE PARTS MANUFACTURING

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

38
NW
1/8-1/4
0.218 mi.
1150 ft.

HOME SAVINGS OF AMERICA **RCRA-SQG** **1025878637**
26674 WARD ST **CAP000043778**
HIGHLAND, CA 92346

Relative:
Lower

Actual:
1156 ft.

RCRA-SQG:

Date Form Received by Agency:	1998-08-27 00:00:00.0
Handler Name:	HOME SAVINGS OF AMERICA
Handler Address:	26674 WARD ST
Handler City,State,Zip:	HIGHLAND, CA 92346
EPA ID:	CAP000043778
Contact Name:	SCOTT NUNES
Contact Address:	100 S VINCENT AVE STE 501
Contact City,State,Zip:	WEST COVINA, CA 91790
Contact Telephone:	626-931-2068
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
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
State District:	Not reported
Mailing Address:	100 S VINCENT AVE STE 501
Mailing City,State,Zip:	WEST COVINA, CA 91790
Owner Name:	HOME SAVINGS OF AMERICA

HOME SAVINGS OF AMERICA (Continued) **1025878637**

Owner Type:	Other
Operator Name:	Not reported
Operator Type:	Not reported
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
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-10-22 12:10:22.0
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

HOME SAVINGS OF AMERICA (Continued) **1025878637**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HOME SAVINGS OF AMERICA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4900 RIVERGRADE RD
Owner/Operator City,State,Zip:	IRWINDALE, CA 91706
Owner/Operator Telephone:	626-814-7987
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1998-08-27 00:00:00.0
Handler Name:	HOME SAVINGS OF AMERICA
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:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

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39 SSE 1/4-1/2 0.390 mi. 2059 ft. **FORMER SKEET RANGE NO. 2** **UXO** **1024717560**
N/A

SAN BERNARDINO, CA

Relative: Higher

Actual: 1174 ft.

UXO:

DoD Component:	Air Force
Installation Name:	NORTON
Name:	FORMER SKEET RANGE NO. 2
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	SR401
Site Type:	Small Arms Range

FORMER SKEET RANGE NO. 2 (Continued) **1024717560**

Latitude: 34.101683
Longitude: -117.214585

I40 East 1/2-1 0.536 mi. 2828 ft. **SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER** **CA ENVIROSTOR** **S103672465**
7979 PALM AVE #E **N/A**
HIGHLAND, CA 92346

Site 1 of 3 in cluster I

Relative: Higher

Actual: 1199 ft.

ENVIROSTOR:

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVE #E
City,State,Zip:	HIGHLAND, CA 923460000
Facility ID:	80001784
Status:	No Further Action
Status Date:	09/09/2010
Site Code:	400247
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	1.8
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Not reported
Supervisor:	* John Geroch
Division Branch:	Cleanup Cypress
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.10682
Longitude:	-117.2082
APN:	NONE SPECIFIED
Past Use:	DISTRIBUTOR - CHEMICAL
Potential COC:	TPH-Stoddard Solvent
Confirmed COC:	TPH-Stoddard Solvent
Potential Description:	SOIL
Alias Name:	CAT000613927
Alias Type:	EPA Identification Number
Alias Name:	110000786007
Alias Type:	EPA (FRS #)
Alias Name:	400247
Alias Type:	Project Code (Site Code)
Alias Name:	80001784
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Human Exposure Controlled
Completed Date:	06/09/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedy Construction Complete

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **S103672465**

Completed Date: 06/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 10/24/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 03/17/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 03/15/1992
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 07/29/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 02/16/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 06/30/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/25/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/09/1995
Comments: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **S103672465**

Completed Area Name:	Sites With No Operable Unit
Completed Sub Area Name:	AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type:	RFI Report
Completed Date:	09/12/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Workplan
Completed Date:	03/29/1996
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	02/09/2011
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

I41 **SAFETY-KLLEEN** **CA LUST** **1000224427**
East **7979 PALM AVE.** **CA CERS HAZ WASTE** **N/A**
1/2-1 **HIGHLAND, CA 92346** **CA SWEEPS UST**
0.536 mi. **CA HIST UST**
2828 ft. **Site 2 of 3 in cluster I** **CA CERS TANKS**
CA CHMIRS
Relative: **CA HWP**
Higher **CA NPDES**
Actual: **CA WDS**
1199 ft. **CA CIWQS**
CA CERS

LUST:

Name:	SAFETY-KLEEN CORPORATION
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Lead Agency:	DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100369
Global Id:	T0607100369
Latitude:	34.1083737
Longitude:	-117.2084252
Status:	Open - Site Assessment
Status Date:	01/10/1994
Case Worker:	Not reported
RB Case Number:	083602626T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Not reported
Local Case Number:	CAT000613927
Potential Media Affect:	Soil

SAFETY-KLLEEN (Continued) **1000224427**

Potential Contaminants of Concern: Stoddard solvent / Mineral Spriits / Distillates
Site History: DTSC lead agengy for site. Consult DTSC's Envirostor database site site status.

LUST:
Global Id: T0607100369
Contact Type: Local Agency Caseworker
Contact Name: CATHERINE RICHARDS
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: crichards@sbcfire.org
Phone Number: 9093868419

Global Id: T0607100369
Contact Type: Regional Board Caseworker
Contact Name: MIGUEL OVIEDO
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 Main Street, Suite 500
City: RIVERSIDE
Email: miguel.oviedo@waterboards.ca.gov
Phone Number: 9517823238

LUST:
Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 07/07/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 10/28/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: ENFORCEMENT
Date: 02/19/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607100369
Action Type: Other
Date: 01/10/1994
Action: Leak Reported

LUST:
Global Id: T0607100369
Status: Open - Case Begin Date
Status Date: 01/10/1994

Global Id: T0607100369
Status: Open - Site Assessment
Status Date: 01/10/1994

CERS HAZ WASTE:
Name: SAFETY-KLEEN SYSTEMS, INC

SAFETY-KLLEEN (Continued) **1000224427**

Address: 7979 PALM AVE UNIT E
City,State,Zip: HIGHLAND, CA 92346
Site ID: 402305
CERS ID: 10145863
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Active
Comp Number: 6282
Number: 9
Board Of Equalization: 44-009069
Referral Date: 03-24-92
Action Date: 06-21-94
Created Date: 02-29-88
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

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: 3

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Name: SAFETY-KLEEN CORP
Address: 7979 PALM AVE
City: HIGHLAND
Status: Not reported
Comp Number: 6282
Number: Not reported
Board Of Equalization: 44-009069
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-006282-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: NOT STATED
Number Of Tanks: Not reported

HIST UST:
Name: SAFETY-KLEEN CORP 7-172-01
Address: 7979 PALM AVENUE
City,State,Zip: HIGHLAND, CA 92346
File Number: 0002A584
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A584.pdf
Region: STATE
Facility ID: 00000006282
Facility Type: Other
Other Type: PARTS WASHER SERVICE
Contact Name: BILL SPENCER
Telephone: 3126978460
Owner Name: SAFETY-KLEEN CORP.
Owner Address: 655 BIG TIMBER ROAD
Owner City,St,Zip: ELGIN, IL 60120
Total Tanks: 0003

Tank Num: 001
Container Num: 01
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: .25
Leak Detection: Visual, Stock Inventor

Tank Num: 002

SAFETY-KLLEEN (Continued) **1000224427**

Container Num:	02
Year Installed:	1977
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	.1875
Leak Detection:	Visual, Stock Inventor

Tank Num:	003
Container Num:	03
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	.25
Leak Detection:	Visual, Stock Inventor

Click here for Geo Tracker PDF:

CERS TANKS:

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE UNIT E
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	402305
CERS ID:	10145863
CERS Description:	Aboveground Petroleum Storage

CHMIRS:

Name:	Not reported
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
OES Incident Number:	8-2790
OES notification:	06/17/1998
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	Safteyclean Corp
Incident Date:	6/16/199812:00:00 AM
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Gasoline-waste
Gallons:	13
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	30-gal drum fell to concrete spilling contents. Cleaned up.

HWP:

EPA ID:	CAT000613927
Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVE #E
Cleanup Status:	CLOSED
Latitude:	34.10682
Longitude:	-117.2082
Facility Type:	Historical - Non-Operating
Facility Size:	Small Storage
Supervisor:	RYAN DOMINGUEZ
Site Code:	400247
Senate District:	23
Assembly District:	40
Public Information Officer:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Commercial Offsite Facility Types: Not reported
Quarterly Update: QUARTERLY UPDATE Quarterly Update Period: January 2021 to March 2021 The Department of Toxic Substances Control (DTSC) received the Closure Certification Report (Report) on December 6, 2019. The closure activities included the inspection and decontamination of the following: - One 11,000-gallon double walled underground storage tank (UST). - Two drum washer units (155-gallon capacity each) and the return and fill station. - One container storage area with a total waste storage capacity of 4,320 gallons. Based on the review of the Report, DTSC confirms that Safety-Kleen Systems Inc. Highland Service Center (Facility) has completed all the closure activities in accordance with the approved Closure Plan and acknowledges that the Facility is now closed. Permit Activity: The current Permit was issued on 6/23/07 and expired on 6/23/17. This facility has two permitted units. Unit 1: Underground Storage Tank and the Return and Fill Unit Unit 2: Drum/container Storage Area A Call in letter for next permit renewal application was issued on December 2, 2015. Pre-application meeting occurred on June 30, 2016. Currently the Facility is preparing Part A and B in order to submit the Application in Fall 2016. In May 2017, the application was withdrawn and facility initiated closure of the facility. FACILITY DESCRIPTION/ HISTORY The facility is located at 7979 Palm Avenue in Highland, San Bernardino County, California, and is categorized as a small storage facility. Safety-Kleen Systems, Inc. (Safety-Kleen) began operation in 1968 to provide solvent reclamation and supply service for customers primarily engaged in automotive repair, industrial maintenance, and dry cleaning. The facility provides customers with parts cleaner services, which involve small parts degreasing units consisting of a sink affixed to the top of a 16- or 30-gallon drum of cleaner solvent at the customer s location. The facility distributes parts washing cleaners and immersion cleaners (carburetor cleaner) for use in the degreasing units. Safety-Kleen s tru
Project Manager Lead: PARISA KHOSRAVIANI
Project Manager: PARISA KHOSRAVIANI
Permit Type: RCRA
Permit Effective Date: Not reported
Permit Expiration Date: Not reported
Calenviroscreen Score: 96-100% (highest scores)
Total Planned Hours: Not reported
Total Planned Amount: Not reported
Total Actual Hours: Not reported

Activities:
EPA ID: CAT000613927
Facility Type: Historical - Non-Operating
Facility Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager: PARISA KHOSRAVIANI
Project Manager Lead: PARISA KHOSRAVIANI
Supervisor: RYAN DOMINGUEZ
Facility Status: CLOSED
Activity Type: Renewal - No Changes
Permit Being Renewed: Not reported
Permit Being Modified: Not reported
Final Date: 2007-05-23 00:00:00
Type: RCRA
Title Description: Permit Renewal - for Units Contain1, and Tankstr1
Due Date: Not reported
Comments: Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	01/10/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	09/14/2004

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - DRAFT PERMIT RENEWAL
Actual Date:	11/07/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	09/07/1990

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - ACKNOWLEDGEMENT OF PERMIT MOD LETTER
Actual Date:	09/25/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL (EFFECTIVE)
Actual Date:	06/23/2007

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC COMMENT (BEGIN)
Actual Date:	11/07/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST RECEIVED
Actual Date:	05/23/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT
Actual Date:	01/05/1993

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1

SAFETY-KLLEEN (Continued) **1000224427**

Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	06/23/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PERMIT APPEALED - APPEAL RECEIVED
Actual Date:	04/20/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	04/29/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan

SAFETY-KLLEEN (Continued) **1000224427**

Due Date:	Not reported
Comments:	Class 1* Permit MOD public notice to newspaper
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - PUBLIC NOTICE TO NEWSPAPER BY PERMITTEE
Actual Date:	12/09/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	11/04/2016
Comments:	Application was received on October 5, 2016. Administrative Review was completed within 30 days of receipt of Application
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	11/02/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PERMIT APPEALED - FINAL DECISION
Actual Date:	09/17/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00

SAFETY-KLLEEN (Continued) **1000224427**

Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT
Actual Date:	09/17/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	01/05/1993

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	01/05/2003

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00

SAFETY-KLLEEN (Continued) **1000224427**

Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date:	04/01/1992

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (END)
Actual Date:	06/13/1994

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	12/23/2016
Comments:	Application dated 9/28/2016
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - APPLICATION PART B RECEIVED
Actual Date:	10/05/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00

SAFETY-KLLEEN (Continued) **1000224427**

Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	12/23/2016
Comments:	Application dated 9/28/2016
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - APPLICATION PART A RECEIVED
Actual Date:	10/05/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - PUBLIC COMMENT (END)
Actual Date:	12/22/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL (EXPIRES)
Actual Date:	06/23/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00

SAFETY-KLLEEN (Continued) **1000224427**

Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Preapplication meeting and site visit - By Hiral Doshi and Michael Choe
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - DTSC MEETING WITH APPLICANT
Actual Date:	06/30/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported
Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	11/02/2015
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	12/02/2015

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - CALL-IN LETTER ISSUED
Actual Date:	06/17/2004

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL
Actual Date:	05/23/2007

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	12/09/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	06/11/1991

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Renewal - No Changes
Permit Being Modified:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Final Date:	2017-06-27 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - Withdrawn
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	06/27/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Class 1* MOD Notice of Exemption
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - CEQA DETERMINATION
Actual Date:	12/05/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - CALL-IN LETTER ISSUED
Actual Date:	10/03/1990
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Mod Class 1* - Prior Approval Required
Permit Being Renewed:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Permit Being Modified:	Not reported
Final Date:	2017-12-09 00:00:00
Type:	RCRA
Title Description:	RCRA Modification to Closure Plan
Due Date:	Not reported
Comments:	Class 1* Permit MOD public notice from the facility
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Mod Class 1* - Prior Approval Required - PUBLIC NOTICE TO MAILING LIST BY PERMITTEE
Actual Date:	11/06/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1993-01-05 00:00:00
Type:	RCRA
Title Description:	Permit1 - Initial permit - Units Contain1, Tankstr1 and Tanktrt1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	04/30/1985

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	Renewal - No Changes
Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	2007-05-23 00:00:00
Type:	RCRA
Title Description:	Permit Renewal - for Units Contain1, and Tankstr1
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit)
Event Description:	Renewal - No Changes - FINAL PART A & PART B RECEIVED
Actual Date:	06/29/2006

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Status:	CLOSED
Activity Type:	New Operating Permit

SAFETY-KLLEEN (Continued) **1000224427**

Permit Being Renewed:	Not reported
Permit Being Modified:	Not reported
Final Date:	1994-09-17 00:00:00
Type:	RCRA
Title Description:	Revised initial permit
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	09/17/1994

Closure:

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Administrative
Final Date:	Not reported
Type:	RCRA
Title Description:	Treatment Tank -Admin closure
Due Date:	01/20/2016
Comments:	Admin closure
Unit Names:	TANKTRT1 (GPRA Unit)
Event Description:	Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date:	01/20/2016

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	DTSC letter & GSU memo
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	05/07/2018

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final

SAFETY-KLLEEN (Continued) **1000224427**

Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Notice of Exemption
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - DRAFT CEQA
Actual Date:	12/05/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Not reported
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - PUBLIC COMMENT (END)
Actual Date:	12/12/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Responded to the closure notification.
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN REQUESTED
Actual Date:	06/27/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE

SAFETY-KLLEEN (Continued) **1000224427**

Due Date:	Not reported
Comments:	Closure Plan received via email
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN RECEIVED
Actual Date:	07/12/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	DTSC letter regarding review of closure plan
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	12/14/2017

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	SK Response, Closure Plan Addendum
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	08/07/2018

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Received via email
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)

SAFETY-KLLEEN (Continued) **1000224427**

Event Description:	Closure Final - CLOSURE NOTICE RECEIVED
Actual Date:	05/23/2017
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	12/31/2020
Comments:	Closure Verification Letter issued
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date:	01/08/2021
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	Received Closure Certification Report
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date:	12/06/2019
EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Facility Size:	Small Storage
Facility Status:	CLOSED
Activity Type:	Closure Final
Final Date:	Not reported
Type:	RCRA
Title Description:	CLOSURE FINAL - CLEAN CLOSURE ACCEPTABLE
Due Date:	Not reported
Comments:	SK Response to DTSC letter
Unit Names:	CONTAIN1 (GPRA Unit), TANKSTR1 (GPRA Unit), TANKTRT1 (GPRA Unit)
Event Description:	Closure Final - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	02/28/2018

SAFETY-KLLEEN (Continued) **1000224427**

Alias:

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Facility Status:	CLOSED
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Alias Type:	FRS
Alias:	110000786007

EPA ID:	CAT000613927
Facility Type:	Historical - Non-Operating
Facility Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Facility Status:	CLOSED
Project Manager:	PARISA KHOSRAVIANI
Project Manager Lead:	PARISA KHOSRAVIANI
Supervisor:	RYAN DOMINGUEZ
Alias Type:	Project Code (Site Code)
Alias:	400247

NPDES:

Name:	SAFETY-KLLEEN
Address:	7979 PALM AVE.
City,State,Zip:	HIGHLAND, CA 92346
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 36NNA000251
Regulatory Measure Type:	Industrial
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:	NONA Submitted
Status Date:	11/16/2017
Operator Name:	Safety Kleen
Operator Address:	7979 Palm Ave
Operator City:	Highland
Operator State:	California
Operator Zip:	92346

Name:	SAFETY KLEEN CORP
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346

SAFETY-KLLEEN (Continued) **1000224427**

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 36I002049
Regulatory Measure Type:	Industrial
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:	11/22/2017
Operator Name:	Safety Kleen
Operator Address:	7979 Palm Ave
Operator City:	Highland
Operator State:	California
Operator Zip:	92346

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	213124
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I002049
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/30/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	10/19/2017
Discharge Name:	Safety Kleen
Discharge Address:	7979 Palm Ave
Discharge City:	Highland
Discharge State:	California
Discharge Zip:	92346
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

SAFETY-KLLEEN (Continued) **1000224427**

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
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
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213124
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I002049
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/30/1992
Status:	Active
Status Date:	03/30/1992
Place Size:	1.5
Place Size Unit:	Acres
Contact:	Bryan Vaughn
Contact Title:	Branch Manager
Contact Phone:	909-862-8300
Contact Phone Ext:	Not reported
Contact Email:	bryan.vaughn@safety-kleen.com
Operator Name:	Safety Kleen
Operator Address:	7979 Palm Ave
Operator City:	Highland
Operator State:	California
Operator Zip:	92346
Operator Contact:	Bryan Vaughn
Operator Contact Title:	Branch Manager
Operator Contact Phone:	909-862-8300
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	bryan.vaughn@safety-kleen.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	951-906-8682
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:	N

SAFETY-KLLEEN (Continued) **1000224427**

Receiving Water Name:	Santa Ana River
Certifier:	Nahid Toossi
Certifier Title:	EHS Manager
Certification Date:	23-JUN-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Name:	HIGHLAND FACILITY
Address:	7979 PALM AVE
City:	HIGHLAND
Facility ID:	Santa Ana River 36I002049
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	9098622856
Facility Contact:	KIMBERLY COLBERT
Agency Name:	SAFETYKLEEN CORP
Agency Address:	7979 Palm Ave
Agency City,St,Zip:	Highland 923464204
Agency Contact:	KIMBERLY COLBERT
Agency Telephone:	9098622856
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

SAFETY-KLLEEN (Continued) **1000224427**

dairy waste ponds.

CIWQS:

Name:	SAFETY KLEEN CORP
Address:	7979 PALM AVE
City,State,Zip:	HIGHLAND, CA 92346
Agency:	Safety Kleen
Agency Address:	7979 Palm Ave, Highland, CA 92346
Place/Project Type:	Industrial - Local Trucking Without Storage
SIC/NAICS:	4212
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I002049
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/30/1992
Termination Date:	10/19/2017
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:	34.10861
Longitude:	-117.20878

CERS:

Name:	SAFETY-KLEEN SYSTEMS
Address:	7979 PALM AVE #E
City,State,Zip:	HIGHLAND, CA 923460000
Site ID:	342459
CERS ID:	80001784
CERS Description:	Corrective Action

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	* John Geroch
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

Name:	SAFETY-KLEEN SYSTEMS, INC
Address:	7979 PALM AVE UNIT E
City,State,Zip:	HIGHLAND, CA 92346
Site ID:	402305
CERS ID:	10145863
CERS Description:	Chemical Storage Facilities

SAFETY-KLLEEN (Continued) **1000224427**

Violations:

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-23-2014
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Returned to compliance on 07/23/2014. VR208 SENSOR INSIDE CLEAN MPC FILL AND STP SUMP SENSORS WHICH INITIALLY FAILED. VR208 SENSOR INSIDE THE CLEAN MPC STP SUMP WAS REPAIRED AND VR208 SENSOR INSIDE CLEAN MPC FILL WAS REPLACED "LIKE FOR LIKE". BOTH SENSORS PASSED WHEN RETESTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2016
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 08/10/2016. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) OBSERVATIONS:(1) THE WASTE SOLVENT UST PIPING SHOWS AS BEING MONITORED BY "205, 208" SENSORS AND HAVING A MECHANICAL LINE LEAK DETECTOR, VMI LD2000. THE WASTE SOLVENT TANK IS NOT MONITORED BY THESE SENSORS ANYMORE AND IT DOES NOT HAVE A LINE LEAK DETECTOR.(2) THE SOLVENT TANK SHOWS AS HAVING A FILL TUBE SHUT-OFF VALVE, WHEN IT DOESN'T; SHOWS PIPING BEING MONITORED BY "205, 208" SENSORS, WHEN IT ISN'T; SHOWS THE LINE LEAK DETECTOR BEING A VMI LD2000, WHEN IT ISN'T. (3) THE UST MONITORING SITE PLAN IS MISSING THE GENERAL PIPING LAYOUT, THE SENSORS LISTED ARE NO LONGER BEING USED AND NEED TO BE UPDATED. COMPLIANCE REQUIREMENT: (1) THE WASTE OIL TANK PIPING SUMPS ARE MONITORED BY VR323 SENSORS AND IT DOES NOT HAVE A LINE LEAK DETECTOR. (2) THE SOLVENT TANK DOES NOT HAVE A FILL-TUBE SHUT-OFF VALVE. MARK "NO" ON THE INFORMATION PAGE; THE SOLVENT TANK SUMPS ARE BY VR323 [Truncated]
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Violation Date:	07-21-2016
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 08/09/2016. OBSERVATIONS: THE BOE# 4402781, LISTED ON THE PERMIT, WAS NOT VALID WHEN CHECKED. COMPLIANCE REQUIREMENT: ENSURE THE CORRECT NUMBER HAS BEEN ENTERED, THEN CHECK IF IT IS VALID WITH THE BOARD OF EQUALIZATION. COMPLIANCE ACTIVITY -8/12/2016- NOTIFICATION SENT VIA EMAIL, ON 8/9/2016, FROM NAHID TOOSI, STATING THE BOE# CORRECTION. CONFIRMED ON CERS. EGRIMES.
Violation Division:	San Bernardino County Fire Department

SAFETY-KLLEEN (Continued) **1000224427**

Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: 23 CCR 16 2666 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2666
Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.
Violation Notes: Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ENABLE THE ALARM OR FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT MONITOR AND REPLACED THE LIGHT BULB AND FLASHER.IT WAS RETESTED-ALARM AND FLASHING LIGHT ACTIVATED-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. 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 2. 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 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. 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.
Violation Notes: Returned to compliance on 09/21/2015. THE VISUAL ALARM ON THE EXTERNAL OVERFILL ANNUNCIATOR WAS INOPERABLE DUE TO A BURNT OUT LIGHT BULB. THE LIGHT WAS REPLACED BY THE UST TECHNICIAN AND WITNESSED OPERABLE AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-12-2018
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 07/14/2018. OBSERVATION: The tank installation dates in CERS are not accurate. CORRECTIVE ACTION: Update tank installation dates to 12/04/1991 in CERS and re-submit UST documents within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST

SAFETY-KLLEEN (Continued) **1000224427**

Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 07/23/2014. UST MONITORING PLAN SUBMITTED ON LINE IN CERS INCOMPLETE MISSING ALL SENSORS CONNECTED TO THE VEEDER ROOT MONITORING SYSTEM. UPDATE AND COMPLETE UST MONITORING PLAN AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 09-22-2015
Citation: HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(h), 25290.2(g), 25291(f), 25292(e)
Violation Description: Failure to install line leak detector.
Violation Notes: Returned to compliance on 09/28/2015. MECHANICAL LINE LEAK DETECTOR IN THE CLEAN PRODUCT TANK FAILED WHEN TESTED.IMMEDIATELY REPLACE INOPERABLE LEAK DETECTOR AND SCHEDULE A WITNESSED RETEST WITH THIS DEPARTMENT WITHIN 10 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: 23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description: Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes: Returned to compliance on 07/23/2013. THE MONITORING CERTIFICATION WAS LAST DONE ON 7/19/12. UST SYSTEMS MUST BE CERTIFIED ANNUALLY.PLEASE PEFORM THE NEXT MONITORING CERTIFICATION WITHIN ONE YEAR.-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes: Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ALARM OR ENABLE THE FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT

SAFETY-KLLEEN (Continued) **1000224427**

MONITOR AND REPLACED THE LIGHT BULB AND FLASHER.IT WAS RETESTED AND ALARM AND FLASHING LIGHT ACTIVATED-VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 08/20/2015. Failure to correct past UST violations within 30 days of receiving a UST inspection report (23CCR 2712(f)) VIOLATION #0315 AND #0312 ARE RECALCITRANT VIOLATIONS NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014 AND IS NOW A CLASS 2 VIOLATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(h), 25290.2(g), 25291(f), 25292(e)
Violation Description: Failure to install line leak detector.
Violation Notes: Returned to compliance on 09/28/2015. MECHANICAL LINE LEAK DETECTOR IN THE CLEAN PRODUCT TANK FAILED WHEN TESTED. IMMEDIATELY REPLACE INOPERABLE LEAK DETECTOR AND SCHEDULE A WITNESSED RETEST WITH THIS DEPARTMENT WITHIN 10 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 08/20/2015. UST MONITORING PLAN SUBMITTED ON LINE IN CERS INCOMPLETE MISSING ALL SENSORS CONNECTED TO THE VEEDER ROOT MONITORING SYSTEM. UPDATE AND COMPLETE UST MONITORING PLAN AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS. THIS WAS NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014 AND IS NOW A RECALCITRANT VIOLATION. THIS IS NOW A CLASS 2 VIOLATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: Un-Specified

SAFETY-KLLEEN (Continued) **1000224427**

Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 08/20/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) UST DESIGNATED OPERATOR STATEMENT SUBMITTED ON LINE IN CERS WAS INCOMPLETE MISSING SIGNATURE. PER FACILITY REPRESENTATIVE, BRYAN VAUGHN, THERE IS A SIGNED COPY. OBTAIN SIGNED UST DESIGNATED OPERATOR STATEMENT AND SUBMIT ON LINE IN CERS WITHIN 30 DAYS. THIS IS A RECALCITRANT VIOLATION NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/23/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2016
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 08/09/2016. OBSERVATIONS: THE CERTIFICATE WAS LAST SIGNED ON 11/4/2014. THE COVERAGE PERIOD IS LISTED AS 11/1/2014 TO 11/1/2015. COMPLIANCE REQUIREMENT: UPDATE THE CERTIFICATE AND MAINTAIN IN CERS. COMPLIANCE ACTIVITY -8/12/2016- NAHID TOOSSI SENT NOTIFICATION ON 8/9/2016 THAT THE UPDATES HAD BEEN MADE. CONFIRMED ON CERS. EGRIMES.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2014
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 07/23/2014. EVIDENCE OF FINANCIAL RESPONSIBLITY FOR UST SYSTEM UNDER GREENWICH INSURANCE EXPIRED 9/1/13. UPDATE UST EVIDENCE OF FINANCIAL RESPONSIBLITY AND SUBMIT TO THIS DEPARTMENT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-21-2015
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 11/06/2015. VR208 SENSOR INSIDE THE CLEAN PRODUCT STP SUMP WAS OBSERVED NOT TO BE PLACED AT THE LOWEST POINT OF THE SUMP. POOLED LIQUIDS WAS OBSERVED INSIDE THE STP SUMP AND WHEN SENSOR WAS PLACED INTO THE POOLED LIQUID, SENSOR FUNCTIONED BY POSITIVE SHUT DOWN WITH AUDIBLE/VISUAL ALARMS. SPOKE WITH EMPLOYEES THAT MAINTAIN THE SUMPS, LOUS CONTRERAS AND FERNANDO PRECIADO, WHO

SAFETY-KLLEEN (Continued) **1000224427**

BOTH CONFIRM THAT THEY MAINTAIN THE SUMPS BUT UNAWARE OF THE RAISED SENSOR OBSERVED INSIDE THE STP SUMP MENTIONED ABOVE. INVESTIGATE THE CAUSE OF THE SENSOR BEING RAISED FROM THE LOWEST POINT IN THE SUMP, AND SUBMIT INVESTIGATION REPORT ALONG WITH A WORK PLAN ON HOW FACILITY WILL MAINTAIN ALL SENSORS AT THE LOWEST POINT. SUBMIT INVESTIGATION REPORT AND WORKPLAN TO THIS DEPARTMENT WITHIN 30 DAYS.

---------- VR 420 ANNULAR SENSOR FOR THE WASTE DOUBLE WALLED WAS [Truncated]

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 09-22-2015
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 11/06/2015. VR208 SENSOR INSIDE THE CLEAN PRODUCT STP SUMP WAS OBSERVED NOT TO BE PLACED AT THE LOWEST POINT OF THE SUMP DURING THE PREVIOUS INSPECTION COMPLETED ON 7/21/2-015. POOLED LIQUIDS WAS OBSERVED INSIDE THE STP SUMP AND WHEN SENSOR WAS PLACED INTO THE POOLED LIQUID, SENSOR FUNCTIONED BY POSITIVE SHUT DOWN WITH AUDIBLE/VISUAL ALARMS. INVESTIGATE THE CAUSE OF THE SENSOR BEING RAISED FROM THE LOWEST POINT IN THE SUMP, AND SUBMIT INVESTIGATION REPORT ALONG WITH A WORK PLAN ON HOW FACILITY WILL MAINTAIN ALL SENSORS AT THE LOWEST POINT. SUBMIT INVESTIGATION REPORT AND WORKPLAN TO THIS DEPARTMENT WITHIN 30 DAYS. WILL BE ADDRESSED IN AEO PROCESS. 11/6/2015 ASAGUAN

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2013
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. 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 2. 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 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. 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.
Violation Notes: Returned to compliance on 07/23/2013. THE EXTERNAL ENUNCIATOR CONNECTED TO THE ATGS DID NOT ALARM OR ENABLE THE FLASHING LIGHT WHEN TESTED. THE SERVICE TECHNICIAN REPLACED A FUSE IN THE VEEDER ROOT MONITOR AND REPLACED THE LIGHT BULB AND FLASHER. IT WAS RETESTED-ALARM AND FLASHING LIGHT ACTIVATED. VIOLATION CORRECTED.

SAFETY-KLLEEN (Continued) **1000224427**

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 08-30-2018
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 hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 09/19/2018. Observed (12) 55 gallon drums containing oil contaminated solids and oily water. The most recent hazardous materials inventory submitted on 07/14/2018 disclosed (2) 55 gallon drums containing oil contaminated solids, and (2) 55 gallon drums of oily water. Update the quantity of liquid petroleum products stored on site from 9,500 gallons to ~11,000 gallons. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into the California Environmental Reporting System (CERS).
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-12-2018
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 07/14/2018. OBSERVATION: The Certificate of Financial Responsibility (CFR) submitted via CERS is dated 11/30/2016, which is expired. CORRECTIVE ACTION: Submit a new CFR to this agency via CERS within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Violation Date: 07-23-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 07/23/2014. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) UST DESIGNATED OPERATOR STATEMENT SUBMITTED ON LINE IN CERS IS INCOMPLETE MISSING SIGNATURES. UPDATE UST DESIGNATED OPERATOR STATEMENT ADDRESSING THE DEFICIENCY NOTED AND SUBMIT TO THIS DEPARTMENT ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection

SAFETY-KLLEEN (Continued) **1000224427**

Eval Date:	05-19-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	SAFETY KLEEN INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-19-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	SAFETY KLEEN INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-12-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-17-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICAITON.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-21-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SECONDARY CONTAINMENT TEST FOLLOWING UST MONITORING SYSTEM CERTIFICATION. SEE C16 REPORT FOR NARRATIVE AND REPORT INFORMATION.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	Yes

SAFETY-KLLEEN (Continued) **1000224427**

Eval Type:	Routine done by local agency
Eval Notes:	Safety-Kleen Annual UST and Monitoring System Cert
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	SAFETY KLEEN 7979 PALMS AVE HIGHLAND
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL INSPECTION WITH UST MONITORING SYSTEM CERTIFICATION FOLLOWING COLD START UNDER PLAN CHECK SR0044224
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-30-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-30-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-30-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-22-2015
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: RE-INSPECTION TO FOLLOW UP ON COMPLIANCE NOTED ON THE PREVIOUS INSPECTION REPORT DATED 7/21/2015
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-28-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: REINSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-21-2015
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: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-21-2016
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: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 402305
Site Name: Safety-Kleen Systems, Inc
Site Address: 7979 PALM AVE UNIT E
Site City: HIGHLAND
Site Zip: 92346
Enf Action Date: 07-23-2013
Enf Action Type: Notice of Violation (Unified Program)

SAFETY-KLLEEN (Continued) **1000224427**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Site Address:	7979 PALM AVE UNIT E
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	07-23-2014
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:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Site Address:	7979 PALM AVE UNIT E
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	08-24-2015
Enf Action Type:	AEO - Unified Program
Enf Action Description:	Administrative Enforcement Order Based on the Unified Program Statute
Enf Action Notes:	Fines/Penalties Assessed: $15,832.00. SEPs Value: $12,712.00. Failure to properly monitor the UST Failure to install a line lead detector Tampering with the leak detection system.
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Site ID:	402305
Site Name:	Safety-Kleen Systems, Inc
Site Address:	7979 PALM AVE UNIT E
Site City:	HIGHLAND
Site Zip:	92346
Enf Action Date:	09-22-2015
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:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Sam Barket
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

SAFETY-KLLEEN (Continued) **1000224427**

Affiliation Type Desc:	Legal Owner
Entity Name:	Safety-Kleen Systems, Inc.
Entity Title:	Not reported
Affiliation Address:	42 Longwater Drive
Affiliation City:	Norwell
Affiliation State:	MA
Affiliation Country:	United States
Affiliation Zip:	02061
Affiliation Phone:	(781) 792-5000

Affiliation Type Desc:	Operator
Entity Name:	Safety-Kleen Systems, 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:	(909) 742-7423

Affiliation Type Desc:	Parent Corporation
Entity Name:	Safety-Kleen Systems, 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:	Identification Signer
Entity Name:	Sam Barket
Entity Title:	Sr. Environmental Compliance 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:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Environmental Contact
Entity Name:	Nahid Toossi
Entity Title:	Not reported
Affiliation Address:	2120 South Yale Street
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported

SAFETY-KLLEEN (Continued) **1000224427**

Affiliation Zip:	92704
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	7979 Palm Ave Unit E
Affiliation City:	Highland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92346
Affiliation Phone:	Not reported

I42
East
1/2-1
0.536 mi.
2828 ft.

Relative:
Higher

Actual:
1199 ft.

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
7979 PALM AVENUE
HIGHLAND, CA 92346

Site 3 of 3 in cluster I

SEMS-ARCHIVE
CORRACTS
RCRA-TSDF
RCRA-LQG
US FIN ASSUR
2020 COR ACTION
NJ MANIFEST

1015732922
CAT000613927

SEMS Archive:

Site ID:	0900292
EPA ID:	CAT000613927
Name:	SAFETY- KLEEN CORP 7-172-01
Address:	7979 PALM AVE UNIT E
Address 2:	Not reported
City,State,Zip:	HIGHLAND, CA 92346
Cong District:	35
FIPS Code:	06071
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Archive Detail:

Region:	09
Site ID:	0900292
EPA ID:	CAT000613927
Site Name:	SAFETY- KLEEN CORP 7-172-01
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse
Region:	09
Site ID:	0900292
EPA ID:	CAT000613927
Site Name:	SAFETY- KLEEN CORP 7-172-01
NPL:	N
FF:	N
OU:	00

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1991-01-01 05:00:00
Finish Date: 1991-01-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0900292
EPA ID: CAT000613927
Site Name: SAFETY- KLEEN CORP 7-172-01
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1991-09-06 04:00:00
Qual: D
Current Action Lead: EPA Perf

CORRACTS:
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: RFA COMPLETED
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION WORKPLAN APPROVED
Actual Date: 00:00.0
Air Release Indicator: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: INVESTIGATION COMPLETE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Area Name: ENTIRE FACILITY
Corrective Action: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Actual Date: 00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Not reported
Soil Release Indicator: Not reported
Surface Water Release Indicator: Not reported

RCRA-LQG:
Date Form Received by Agency: 2020-02-03 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Handler Address: 7979 PALM AVENUE
Handler City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Contact Name: NAHID TOOSSI
Contact Address: SOUTH YALE STREET
Contact City,State,Zip: SANTA ANA, CA 92704
Contact Telephone: 949-981-5099
Contact Fax: Not reported
Contact Email: NAHID.TOOSSI@SAFETY-KLEEN.COM
Contact Title: DIRECTOR COMPLIANCE
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities, Corrective Action Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: PALM AVENUE
Mailing City,State,Zip: HIGHLAND, CA 92346
Owner Name: SAFETY-KLEEN SYSTEMS INC.
Owner Type: Private
Operator Name: SAFETY-KLEEN SYSTEMS INC.
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: Yes
Recycler Activity with Storage: No
Small Quantity On-Site Burner Exemption: No
Smelting Melting and Refining Furnace Exemption: No

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

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:	Yes
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
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:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
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:	2020-10-14 19:34:31.0
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

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D019
Waste Description: CARBON TETRACHLORIDE

Waste Code: D021
Waste Description: CHLOROBENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D023
Waste Description: O-CRESOL

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D025
Waste Description: P-CRESOL

Waste Code: D026
Waste Description: CRESOL

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D041
Waste Description: 2,4,5-TRICHLOROPHENOL

Waste Code: D042
Waste Description: 2,4,6-TRICHLOROPHENOL

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: SAFETY-KLEEN SYSTEMS, INC

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
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:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5360 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER DRIVE
Owner/Operator City,State,Zip:	NORWELL, MA 02061-9149
Owner/Operator Telephone:	781-792-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN CORP ELGIN IL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	777 BIG TIMBER RD
Owner/Operator City,State,Zip:	ELGIN, IL 60123
Owner/Operator Telephone:	708-697-8460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR.,CL II, BLDG. 3

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator City,State,Zip:	PLANO, TX 75024
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:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY KLEEN SYSTEMS INC
Legal Status:	Private

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1301 GERVAIS ST STE 300
Owner/Operator City,State,Zip:	COLUMBIA, SC 29201
Owner/Operator Telephone:	803-933-4393
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2006-02-27 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS, INC.
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

Receive Date:	2010-08-05 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS INC
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

Receive Date:	2012-08-21 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS, INC
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

Receive Date:	2014-03-01 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS, INC
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-02-26 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
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

Receive Date: 2018-02-23 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
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: No
Electronic Manifest Broker: No

Receive Date: 2020-02-03 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1998-07-13 00:00:00.0
Handler Name: SAFETY KLEEN SYSTEMS INC
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Receive Date: 1990-04-12 00:00:00.0
Handler Name: SAFETY-KLEEN CORP (7-172-01)
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

Receive Date: 1992-03-31 00:00:00.0
Handler Name: SAFETY-KLEEN CORP (7-172-01)
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: 1994-03-25 00:00:00.0
Handler Name: SAFETY-KLEEN CORP
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

Receive Date: 1996-03-29 00:00:00.0
Handler Name: SAFETY KLEEN CORP
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

Receive Date: 1999-03-04 00:00:00.0
Handler Name: SAFETY-KLEEN CORP - HIGHLAND, CA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

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: 2000-10-12 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC. SAN BERNARDIN
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

Receive Date: 2002-03-27 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
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

Receive Date: 2004-03-29 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC
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

Receive Date: 2008-03-13 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 42183
NAICS Description: INDUSTRIAL MACHINERY AND EQUIPMENT WHOLESALERS

NAICS Code: 42269
NAICS Description: OTHER CHEMICAL AND ALLIED PRODUCTS WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 44131
NAICS Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

NAICS Code: 53231
NAICS Description: GENERAL RENTAL CENTERS

NAICS Code: 561499
NAICS Description: ALL OTHER BUSINESS SUPPORT SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 562112
NAICS Description: HAZARDOUS WASTE COLLECTION

Facility Has Received Notices of Violation:

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2012-09-27 00:00:00.0
Actual Return to Compliance Date: 2012-09-27 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 2012-09-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-02-18 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 514
Date of Enforcement Action: 2009-01-14 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 511
Date of Enforcement Action: 2007-12-07 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 2016-11-30 00:00:00.0
Actual Return to Compliance Date: 2016-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 522
Date of Enforcement Action: 2017-01-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 215
Date of Enforcement Action: 2001-08-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 17000
Paid Amount: Not reported
Final Count: 1
Final Amount: 17000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-10-23 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1996-04-15 00:00:00.0
Actual Return to Compliance Date: 1996-04-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 1996-04-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 1988-08-03 00:00:00.0
Actual Return to Compliance Date: 1989-02-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1988-06-26 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1988-05-26 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1991-03-19 00:00:00.0
Actual Return to Compliance Date: 1991-11-22 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1991-08-01 00:00:00.0
Enforcement Identifier: 005
Date of Enforcement Action: 1991-04-03 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 2016-11-30 00:00:00.0
Actual Return to Compliance Date: 2016-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 2016-11-30 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2005-10-25 00:00:00.0
Actual Return to Compliance Date: 2006-03-16 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2005-11-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2005-10-25 00:00:00.0
Actual Return to Compliance Date: 2006-03-16 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 2005-11-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 1991-09-26 00:00:00.0
Actual Return to Compliance Date: 1993-07-23 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 2006-09-26 00:00:00.0
Actual Return to Compliance Date: 2006-09-26 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2006-10-06 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-10-23 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 2006-09-26 00:00:00.0
Actual Return to Compliance Date: 2006-09-26 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: 510
Date of Enforcement Action: 2006-10-06 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2012-09-27 00:00:00.0
Actual Return to Compliance Date: 2012-09-27 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 2012-11-20 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-02-18 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2009-01-14 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1988-08-09 00:00:00.0
Actual Return to Compliance Date: 1990-05-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: 1988-10-15 00:00:00.0
Enforcement Identifier: 002
Date of Enforcement Action: 1988-09-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 511
Date of Enforcement Action: 2007-12-07 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 2008-12-22 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1990-03-20 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: R9STA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	2012-09-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2012-09-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2014-11-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1999-07-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2003-11-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1993-07-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-10-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2012-12-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1998-08-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-12-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2016-11-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2016-11-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2015-01-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	2003-11-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1997-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-04-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1996-04-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-08-03 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-02-21 00:00:00.0
Scheduled Compliance Date:	1988-06-26 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-03-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-22 00:00:00.0
Scheduled Compliance Date:	1991-08-01 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2016-11-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2016-11-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-09-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2005-10-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2005-10-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2016-12-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-09-26 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-09-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-09-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-09-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-09-26 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2012-09-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2012-09-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	2005-01-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2001-08-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-06-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-11-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-08-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-05-14 00:00:00.0
Scheduled Compliance Date:	1988-10-15 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

RCRA-LQG:

Date Form Received by Agency:	2020-02-03 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Handler Address:	7979 PALM AVENUE
Handler City,State,Zip:	HIGHLAND, CA 92346-0000
EPA ID:	CAT000613927
Contact Name:	NAHID TOOSSI
Contact Address:	SOUTH YALE STREET
Contact City,State,Zip:	SANTA ANA, CA 92704
Contact Telephone:	949-981-5099
Contact Fax:	Not reported
Contact Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Contact Title:	DIRECTOR COMPLIANCE
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Handler Activities, Corrective Action Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PALM AVENUE
Mailing City,State,Zip:	HIGHLAND, CA 92346
Owner Name:	SAFETY-KLEEN SYSTEMS INC.
Owner Type:	Private
Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	Yes
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:	Yes
Treatment Storage and Disposal Type:	Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Accomplished
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

202 GPRA Corrective Action Baseline:	Yes
Corrective Action Workload Universe:	Yes
Subject to Corrective Action Universe:	Yes
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:	Yes
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	Yes
Groundwater Controls Indicator:	Yes
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:	2020-10-14 19:34:31.0
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

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D021
Waste Description:	CHLOROBENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D023
Waste Description:	O-CRESOL
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D025
Waste Description:	P-CRESOL
Waste Code:	D026
Waste Description:	CRESOL

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D041
Waste Description: 2,4,5-TRICHLOROPHENOL

Waste Code: D042
Waste Description: 2,4,6-TRICHLOROPHENOL

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	714-429-4355
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
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:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DRIVE
Owner/Operator City,State,Zip:	PLANO, TX 75024
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:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5360 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	7979 PALM AVENUE
Owner/Operator City,State,Zip:	HIGHLAND, CA 92346
Owner/Operator Telephone:	909-862-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	42 LONGWATER DRIVE
Owner/Operator City,State,Zip:	NORWELL, MA 02061-9149
Owner/Operator Telephone:	781-792-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN CORP ELGIN IL
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	777 BIG TIMBER RD

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Owner/Operator City,State,Zip:	ELGIN, IL 60123
Owner/Operator Telephone:	708-697-8460
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR.,CL II, BLDG. 3
Owner/Operator City,State,Zip:	PLANO, TX 75024
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:	SAFETY-KLEEN SYSTEMS INC.
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2600 NORTH CENTRAL EXPRESSWAY
Owner/Operator City,State,Zip:	RICHARDSON, TX 75080
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	NAHID.TOOSSI@SAFETY-KLEEN.COM
Owner/Operator Indicator:	Operator
Owner/Operator Name:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS, INC.
Legal Status:	Private
Date Became Current:	1990-06-25 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:	SAFETY-KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	1990-06-25 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	5400 LEGACY DR
Owner/Operator City,State,Zip:	PLANO, TX 75024
Owner/Operator Telephone:	972-265-2000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAFETY KLEEN SYSTEMS INC
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1301 GERVAIS ST STE 300
Owner/Operator City,State,Zip:	COLUMBIA, SC 29201
Owner/Operator Telephone:	803-933-4393
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2006-02-27 00:00:00.0
Handler Name:	SAFETY-KLEEN SYSTEMS, INC.
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Electronic Manifest Broker: Not reported

Receive Date: 2010-08-05 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC
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

Receive Date: 2012-08-21 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC
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

Receive Date: 2014-03-01 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC
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

Receive Date: 2016-02-26 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
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

Receive Date: 2018-02-23 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Federal Waste Generator Description: Large Quantity Generator

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

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: No
Electronic Manifest Broker: No

Receive Date: 2020-02-03 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1998-07-13 00:00:00.0
Handler Name: SAFETY KLEEN SYSTEMS INC
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

Receive Date: 1990-04-12 00:00:00.0
Handler Name: SAFETY-KLEEN CORP (7-172-01)
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

Receive Date: 1992-03-31 00:00:00.0
Handler Name: SAFETY-KLEEN CORP (7-172-01)
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1994-03-25 00:00:00.0
Handler Name: SAFETY-KLEEN CORP
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

Receive Date: 1996-03-29 00:00:00.0
Handler Name: SAFETY KLEEN CORP
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

Receive Date: 1999-03-04 00:00:00.0
Handler Name: SAFETY-KLEEN CORP - HIGHLAND, CA
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

Receive Date: 2000-10-12 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC. SAN BERNARDIN
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

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Receive Date: 2002-03-27 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS, INC.
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

Receive Date: 2004-03-29 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC
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

Receive Date: 2008-03-13 00:00:00.0
Handler Name: SAFETY-KLEEN SYSTEMS INC
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: 42183
NAICS Description: INDUSTRIAL MACHINERY AND EQUIPMENT WHOLESALERS

NAICS Code: 42269
NAICS Description: OTHER CHEMICAL AND ALLIED PRODUCTS WHOLESALERS

NAICS Code: 42272
NAICS Description: PETROLEUM AND PETROLEUM PRODUCTS WHOLESALERS (EXCEPT BULK STATIONS AND TERMINALS)

NAICS Code: 44131
NAICS Description: AUTOMOTIVE PARTS AND ACCESSORIES STORES

NAICS Code: 53231
NAICS Description: GENERAL RENTAL CENTERS

NAICS Code: 561499

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

NAICS Description: ALL OTHER BUSINESS SUPPORT SERVICES

NAICS Code: 56199
NAICS Description: ALL OTHER SUPPORT SERVICES

NAICS Code: 562112
NAICS Description: HAZARDOUS WASTE COLLECTION

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2012-09-27 00:00:00.0
Actual Return to Compliance Date: 2012-09-27 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 302
Date of Enforcement Action: 2012-09-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-02-18 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 514
Date of Enforcement Action: 2009-01-14 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2000-08-28 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - Manifest/Records/Reporting
Date Violation was Determined:	2007-10-22 00:00:00.0
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	511
Date of Enforcement Action:	2007-12-07 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 2016-11-30 00:00:00.0
Actual Return to Compliance Date: 2016-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 522
Date of Enforcement Action: 2017-01-27 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Tank System Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 215
Date of Enforcement Action: 2001-08-27 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: SINGLE SITE CA/FO
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: 17000
Paid Amount: Not reported
Final Count: 1
Final Amount: 17000

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-10-23 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 1996-04-15 00:00:00.0
Actual Return to Compliance Date: 1996-04-15 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 006
Date of Enforcement Action: 1996-04-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 1988-08-03 00:00:00.0
Actual Return to Compliance Date: 1989-02-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1988-06-26 00:00:00.0
Enforcement Identifier: 001
Date of Enforcement Action: 1988-05-26 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1991-03-19 00:00:00.0
Actual Return to Compliance Date: 1991-11-22 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1991-08-01 00:00:00.0
Enforcement Identifier: 005
Date of Enforcement Action: 1991-04-03 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 2016-11-30 00:00:00.0
Actual Return to Compliance Date: 2016-11-30 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 306
Date of Enforcement Action: 2016-11-30 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD - General Facility Standards
Date Violation was Determined:	2005-10-25 00:00:00.0
Actual Return to Compliance Date:	2006-03-16 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	200
Date of Enforcement Action:	2005-11-22 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General Facility Standards
Date Violation was Determined: 2005-10-25 00:00:00.0
Actual Return to Compliance Date: 2006-03-16 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 507
Date of Enforcement Action: 2005-11-22 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Manifest/Records/Reporting
Date Violation was Determined: 2000-08-25 00:00:00.0
Actual Return to Compliance Date: 2000-10-05 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 501
Date of Enforcement Action: 2000-09-18 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 1991-09-26 00:00:00.0
Actual Return to Compliance Date: 1993-07-23 00:00:00.0
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 2006-09-26 00:00:00.0
Actual Return to Compliance Date: 2006-09-26 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2006-10-06 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2007-10-23 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Financial Requirements
Date Violation was Determined: 2006-09-26 00:00:00.0
Actual Return to Compliance Date: 2006-09-26 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 510
Date of Enforcement Action: 2006-10-06 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 2012-09-27 00:00:00.0
Actual Return to Compliance Date: 2012-09-27 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 518
Date of Enforcement Action: 2012-11-20 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2009-01-13 00:00:00.0
Actual Return to Compliance Date: 2009-02-18 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 200
Date of Enforcement Action: 2009-01-14 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - General
Date Violation was Determined: 1988-08-09 00:00:00.0
Actual Return to Compliance Date: 1990-05-14 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1988-10-15 00:00:00.0
Enforcement Identifier: 002
Date of Enforcement Action: 1988-09-15 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2007-10-22 00:00:00.0
Actual Return to Compliance Date: 2007-10-23 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 511
Date of Enforcement Action: 2007-12-07 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD - Closure/Post-Closure
Date Violation was Determined: 1990-03-26 00:00:00.0
Actual Return to Compliance Date: 1991-11-21 00:00:00.0
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 1990-08-08 00:00:00.0
Enforcement Identifier: 003
Date of Enforcement Action: 1990-05-08 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9STA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	2008-12-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2012-09-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2012-09-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2014-11-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-06-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1999-07-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-11-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1993-07-23 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2000-10-05 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2012-12-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	1998-08-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2010-12-08 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2016-11-30 00:00:00.0
Evaluation Responsible Agency:	State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2016-11-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2015-01-02 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2003-11-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1997-02-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-04-15 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1996-04-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-08-03 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1989-02-21 00:00:00.0
Scheduled Compliance Date:	1988-06-26 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	1991-03-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-22 00:00:00.0
Scheduled Compliance Date:	1991-08-01 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2016-11-30 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2016-11-30 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2006-09-19 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-10-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-10-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-03-16 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2016-12-13 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2000-08-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-10-05 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1991-09-26 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1993-07-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-09-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-09-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2006-09-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2006-09-26 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2012-09-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2012-09-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-01-13 00:00:00.0
Evaluation Responsible Agency:	State

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Found Violation:	Yes
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2009-02-18 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-31 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-01-25 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2001-08-27 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-06-07 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2010-11-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-08-09 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1990-05-14 00:00:00.0
Scheduled Compliance Date:	1988-10-15 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2007-10-22 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2007-10-23 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1990-03-26 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1991-11-21 00:00:00.0
Scheduled Compliance Date:	1990-08-08 00:00:00.0
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

US FIN ASSUR:

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	2000000
Face value:	2000000
Effective date:	2011-09-01 00:00:00
Provider:	GREENWICH INSURANCE CO.
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	149250
Face value:	186909
Effective date:	2015-11-17 00:00:00
Provider:	INDIAN HARBOR INS. CO.
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	149250
Face value:	172994
Effective date:	2010-11-17 00:00:00
Provider:	INDIAN HARBOR INSURANCE
EPA region:	9

Name:	SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address:	7979 PALM AVENUE
City,State,Zip:	HIGHLAND, CA
EPA ID:	CAT000613927
County:	Not reported
Mechanism type:	I
Mechanism Type Description:	INSURANCE
Cost estimate:	2000000
Face value:	2000000
Effective date:	2015-11-01 00:00:00
Provider:	INDIAN HARBOR INS. CO.
EPA region:	9

2020 COR ACTION:

EPA ID:	CAT000613927
Region:	9

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Action: Remedy Construction

NJ MANIFEST:

EPA Id:	CAT000613927
Mail Address:	777 BIG TIMBER ROAD
Mail City/State/Zip:	ELGIN, IL 60123-0000
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	BOB WACHSMUTH
Comments:	Not reported
SIC Code:	Not reported
County:	CA071
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	002667579SKS
EPA ID:	CAT000613927
Date Shipped:	2/17/2011
TSDF EPA ID:	NJD002182897
Transporter EPA ID:	TXR000050930
Transporter 2 EPA ID:	ORQ000006601
Transporter 3 EPA ID:	MND048341788
Transporter 4 EPA ID:	FLD006921340
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER (Continued) **1015732922**

Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	ELGIN, IL 60123-0000
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H020
Quantity:	1,796.00 gallons

---

43 SSW 1/2-1 0.650 mi. 3431 ft. **FORMER SKEET RANGE NO. 1** **UXO** **1024717552**
N/A

SAN BERNARDINO, CA

Relative: Lower
Actual: 1148 ft.

UXO:

DoD Component:	Air Force
Installation Name:	NORTON
Name:	FORMER SKEET RANGE NO. 1
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA
Site ID:	SR400
Site Type:	Small Arms Range
Latitude:	34.097424
Longitude:	-117.221660

J44 SW 1/2-1 0.656 mi. 3463 ft. **NORTON AIR FORCE BASE** **CA BOND EXP. PLAN** **S100833333**
NORTON AIR FORCE BASE **N/A**
SAN BERNARDINO, CA 92409

Site 1 of 3 in cluster J

Relative: Lower
Actual: 1138 ft.

CA BOND EXP. PLAN:

Reponsible Party:	FEDERAL FACILITY SITE CLEANUP WORKPLAN
Project Revenue Source Company:	Not reported
Project Revenue Source Addr:	Not reported
Project Revenue Source City,St,Zip:	Not reported
Project Revenue Source Desc:	DHS will either enter into an interagency agreement with EPA and DOD or will issue an order to DOD. DHS has budgeted $100,000 for oversight and monitoring of DOD's activities. DHS will seek cost recovery for its direct costs plus staff costs and overhead related to the project.
Site Description:	This site is a U.S. Air Force Military Command Base which began operations in 1942. Past waste management practices associated with base activities included drum burial, hazardous waste disposal in unlined pits, storage of leaking drums, leakage of underground storage tanks, and materials spills. The practices have resulted in significant soil and ground water contamination.
Hazardous Waste Desc:	Past disposal practices onsite have caused the release of large volumes of fuels, solvents and heavy metals to the soil and ground water. Monitoring wells on the base are contaminated with methylene chloride, toluene, benzene and trichloroethene (TCE). Chemicals found in the soil onsite include oil and grease, hexavalent chromium, xylene and polychlorinated biphenyls (PCBs).

NORTON AIR FORCE BASE (Continued) **S100833333**

Threat To Public Health & Env: Contaminants have migrated into soil and ground water beneath the Base. Major public drinking supply wells are within 500 feet of waste disposal areas onsite. Drinking water supplies are threatened. In addition, there is a potential for direct worker contact with contaminated soils onsite.

Site Activity Status: The site is currently in Phase II of a four phase installation restoration program (IRP). The IRP was initiated by the Department of Defense (DOD). The site has been proposed for inclusion on the NPL. EPA and DOD are negotiating and agreement to remediate contamination under EPA oversight. DHS will monitor the DOD's remedial activities.

J45 **NORTON A F B BLDG 620** **CA LUST** **S100676362**
SW **D ST** **CA Toxic Pits** **N/A**
1/2-1 **SAN BERNARDINO, CA 92409** **CA HIST CORTESE**
0.656 mi.
3463 ft. **Site 2 of 3 in cluster J**

Relative:
Lower

Actual:
1138 ft.

LUST REG 8:

Name:	Norton A F B Bldg 620
Address:	D ST
City:	SAN BERNARDINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602455T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	DEL ROSA DRIVE (6TH ST.)
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0607100327
How Stopped Date:	4/8/1994
Enter Date:	6/16/1994
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/8/1994
Enforcement Date:	Not reported
Close Date:	12/26/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	2/27/1995
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/16/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	DOD
Latitude:	34.1320986

NORTON A F B BLDG 620 (Continued) **S100676362**

Longitude: -117.2952347
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: JCB
Staff Initials: CR2
Lead Agency: Regional Board
Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: FIVE 10,000 GAL UNLEADED GASOLINE ONE 600 GAL OIL/WATER SEPARATOR, AND ONE 550 GAL WASTE OIL (ALL INSTALLED 1974, REMOVED 4/1994); FORMERLY A CIVILIAN SERVICE STATION (CONSTRUCTED 1970s). 7 FUELING ISLANDS, VEHICLE SERV. AREA, WASH'G SLAB

TOXIC PITS:
Region: 08
Task #: 68009
Owner: U.S.A.F. NORTON AFB
1/2 Mi Limit: Y
Num. of Pits: 1
Cease Discharge Due: 06/30/88
Cease Discharge Complete: 08/10/88
Closure Due: / /
Closure Completed: / /
Status: CLOSED
Hydro Geological Assessment Report Due: / /
Final Hydro Geological Assessment Review Completed: / /

HIST CORTESE:
edr_fname: Norton A F B Bldg 645
edr_fadd1: D ST
City,State,Zip: SAN BERNARDINO, CA 92409
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602593T

J46 **NORTON AIR FORCE BASE** **CA ENVIROSTOR** **S101272838**
SW **2,208 ACRES;58 MI EA OF LOS ANGELES, CA** **CA HIST Cal-Sites** **N/A**
1/2-1 **SAN BERNARDINO, CA 92409** **CA DEED**
0.656 mi.
3463 ft. **Site 3 of 3 in cluster J**

Relative:
Lower
Actual:
1138 ft.

ENVIROSTOR:
Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Facility ID: 36970004
Status: Active

NORTON AIR FORCE BASE (Continued) **S101272838**

Status Date:	05/01/1986
Site Code:	401403
Site Type:	Federal Superfund
Site Type Detailed:	Closed Base
Acres:	2179
NPL:	YES
Regulatory Agencies:	SMBRP, RWQCB 8 - Santa Ana, US EPA
Lead Agency:	US EPA
Program Manager:	Stephen Niou
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	40
Senate:	23
Special Program:	DSMOA
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	BRAC 88
Latitude:	34.0966
Longitude:	-117.2478
APN:	NONE SPECIFIED
Past Use:	AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DAY CARE FACILITY, DEGREASING FACILITY, DRY CLEANING, ENGINE TESTING/REPAIR, FIRE TRAINING AREAS, FIRING RANGE - SMALL ARMS ETC..., FUEL - AIRCRAFT STORAGE/ REFUELING, JET FUEL STORAGE/REFUELING, LANDFILL - DOMESTIC, MACHINE SHOP, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PHOTOGRAPHIC PROCESSING, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING, WASTE - INDUSTRIAL TREATMENT FACILITY, WASTE - INDUSTRIAL WASTE LINE, WASTE WATER PONDS
Potential COC:	* Metals - Sludge * Sludge - Paint Dioxin (as 2,3,7,8-TCDD TEQ Lead Methane Polynuclear aromatic hydrocarbons (PAHs TPH-JET FUEL Trichloroethylene (TCE
Confirmed COC:	Dioxin (as 2,3,7,8-TCDD TEQ Lead Methane Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE TPH-JET FUEL
Potential Description:	AQUI, OTH, SOIL, WELL
Alias Name:	CA4570024345
Alias Type:	EPA Identification Number
Alias Name:	110033605908
Alias Type:	EPA (FRS #)
Alias Name:	DOD100360700
Alias Type:	GeoTracker Global ID
Alias Name:	DOD100364300
Alias Type:	GeoTracker Global ID
Alias Name:	SLT8R1744169
Alias Type:	GeoTracker Global ID
Alias Name:	T10000007307
Alias Type:	GeoTracker Global ID
Alias Name:	P42053
Alias Type:	PCode
Alias Name:	11671
Alias Type:	RB-PCA
Alias Name:	400108
Alias Type:	Project Code (Site Code)
Alias Name:	401403
Alias Type:	Project Code (Site Code)
Alias Name:	36970004
Alias Type:	Envirostor ID Number

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Info:

Completed Area Name:	CBA
Completed Sub Area Name:	CBA-S
Completed Document Type:	* Remedial or Removal Design
Completed Date:	12/07/1994
Comments:	DES - CBA-S -- Design for contaminated soils within the Centra Base Area (CBA). This design describes the engineering design components of remedial actions at Building 658 and IRP Site 9 located in the TCE source areas of the CBA-OU. The selected remedies consist of excavation and exsitu vapor extraction for TCE impacted soils at Building 658 and excavation and off-site stabilization and disposal for TCE and chromium impacted soils from IRP Site 9. Approximate cost = 300,000; funding = BRAC.

Completed Area Name:	OU3
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/01/1994
Comments:	PEA - OU3 -- DTSC approved the PEA on December 1, 1994. This PEA resulted in the identification of 19 locations with sufficient evidence of contamination that warranted more thorough investigation of the extent of contamination. Approximate cost = 1,100,000; funding = BRAC.

Completed Area Name:	CBA
Completed Sub Area Name:	CBAGW
Completed Document Type:	* Remedial or Removal Design
Completed Date:	10/07/1994
Comments:	DES - CBAGW -- MODIFICATION - The design consists of modifications to the existent Central Base Area (CBA) pump and treat system to increase its capacity from 200 gallons per minute (gpm) to 400 gpm. The modifications are: addition of four new extraction wells and three new injection wells; replace 4-inch piping with 6-inch piping as required inside the treatment system area; replace existing centrifugal transfer pumps with larger pumps; operate the liquid phase carbon units in a parallel mode; addition of new in-line filters; addition of a new in-line sand separator; and installation of pipeline from the new extraction wells and injection wells to the treatment plant area; install new pipeline from new injection wells and tie-in to the existing injection well pipeline. Approximate cost = 336,000; funding = BRAC.

Completed Area Name:	CBA
Completed Sub Area Name:	CBAGW
Completed Document Type:	* Remedial or Removal Design
Completed Date:	09/21/1994
Comments:	DES - CBAGW -- Central Base Area Groundwater (CBAGW) pump and treat system. The pump and treat system includes a new extraction well (to supplement the two existing wells), eight injection wells, a groundwater treatment plant, and pipelines to transport the water among the wells and the treatment plant. The groundwater will be treated by packed tower air strippers. As mandated in the Record of Decision dated November 24, 1993, this system will "maintain hydraulic control to the extent possible of the plume while extracting contaminated groundwater, and reinjecting treated groundwater into the contaminant plume or the clean portion of the aquifer." Approximate cost = $700,000; funding = BRAC.

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IRP15
Completed Document Type: Feasibility Study Report
Completed Date: 06/05/1994
Comments: RI/FS - IRP15 -- DTSC approved the Remediation Investigation/Feasibility Study for IRP15 on June 5, 1994. Approximate cost = $4,000,000; funding = BRAC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 04/19/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/23/1993
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Feasibility Study Report
Completed Date: 02/05/1993
Comments: Final FS for the Central Base Area (CBA) OU was approved. The CBA OU is OU#1 which addresses groundwater contamination and all sources.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GW
Completed Document Type: Removal Action Completion Report
Completed Date: 12/02/1992
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: UTILS
Completed Document Type: Environmental Baseline Survey
Completed Date: 02/09/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-J1
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: * Order
Completed Date: 04/14/1995
Comments: BUILDING 658 CLEANUP OF SHALLOW SUBSTANCE TRICHLOROETHYLENE (TCE) CONTAMINATED SOILS BY EX-SITU SOIL VAPOR EXTRATION. THIS ACTIVITY IS

NORTON AIR FORCE BASE (Continued) **S101272838**

THE ONE OF THE SELECTED REMEDIES DESCRIBED IN THE NOVEMBER 24, 1993, CENTRAL BASE AREA OPERABLE UNIT RECORD OF DECISION (ROD), SECTION 9.2.2. THE NOVEMBER 18, 19 ENGINEERING DESIGN REPORT DESCRIBED THE REMEDIAL ACTIONS TO BE IMPLEMENTED AT BUILDING 658. THESE ACTIONS CONSIST OF: EXCAVATION OF TCE-CONTAMINATED SOIL AT BUILDING 658, AND REMOVAL OF A SUMP AND ASSOCIATION APPURTENANCES; TRANSPORT OF THE SOIL FROM BUILDING 658 TO A ON-BASE LOCATION; CONSTRUCTION OF AN EX-SITU TREATMENT CELL AND VAPOR ABATEMENT SYSTEM TO REMEDIATE THE EXCAVATED SOIL USING VAPOR EXTRATION; OPERATION OF THE EX-SITU TREATMENT SYSTEM UNTIL TCE CONCENTRATIONS ARE BELOW LEVELS PRESCRIBED IN THE ROD; AND SITE RESTORATION, INCLUDING BACKFILL OF THE EXCAVATION AND RESURFACING OF THE DISTURBED AREA. RESULT OF THE CONFIRMATION SAMPLING DID NOT DETECT ANY CONCENTRATIONS ABOVE THE CLEANUP STANDARD (5UG/L IN LEACHATE ANALYZED BY THE TOXIC CHARACTERISTICS LEACHING PROCEDURE (TCP)). ORDER Installation Restoration Program (IRP) Site 5 is the former fire training area. Soils at IRP Site 5 are contaminated with hydrocarbons, dioxins, metals, and polynuclear aromatic hydrocarbons (PAHs). The proposed remedial actions will meet industrial reuse and groundwater protection based Target Cleanup Goals (TCGs) and will consist of: - Soil Vapor Extraction (SVE), including activated carbon treatment of extracted vapors, to reduce hydrocarbon contam- ination in site soils to below groundwater protection based TCGs; - Excavation and offsite landfill disposal of soils contain- ing dioxin concentrations in excess of industrial reuse TCGs at a licensed Subtitle C disposal facility permitted to accept dioxin-contaminated soils; - Excavation, stabilization, and transport to IRP Site 2 Landfill (to be used as fill material for landfill closure cap) of metal- and PAH-contaminated soil above the indus- trial reuse TCGs; - Excavation and transport to IRP Site 2 (without stabil- ization), of metal- and PAH-contaminated soils above the industrial reuse TCGs and classified as California nonhazardous. VOLUME TREATED, STABILIZED, OR DISPOSED: Approximately 6000 cubic yards APPROXIMATE COST: $500,000

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GW
Completed Document Type: * CEQA
Completed Date: 11/25/1991
Comments: A Negative Declaration was filed with the State clearing House on 10/5/91. A notice if determination was filed with the San Bernardino County Clerk for the pump & treat system for the central base area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Federal Facility Agreement
Completed Date: 06/29/1989
Comments: Federal Facility Agreement (FFA) between Air Force, USEPA, and DHS Toxic Substances Control Division was signed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/20/2007
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWTP

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/12/2006
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Land Use Restriction
Completed Date: 09/17/2007
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Site 2
Completed Document Type: Land Use Restriction
Completed Date: 09/20/2007
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Land Use Restriction
Completed Date: 09/17/2007
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: STE19
Completed Document Type: Land Use Restriction
Completed Date: 08/31/2007
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P M
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P G-2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P G-2
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE13
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/27/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: BIO-T
Completed Document Type: Removal Action Completion Report
Completed Date: 01/29/1997
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWTP
Completed Document Type: Removal Action Completion Report
Completed Date: 10/24/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: STE19
Completed Document Type: Remedial Action Plan
Completed Date: 07/21/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PA1-3
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 08/22/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: EXSI
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/02/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Ste 12
Completed Document Type: Feasibility Study Report
Completed Date: 10/03/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: * Remedial or Removal Design
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILR
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/23/1996
Comments: Not reported

Completed Area Name: OU2&3
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/22/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: SVECB
Completed Document Type: Removal Action Completion Report

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Date: 06/21/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT14
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Feasibility Study Report
Completed Date: 04/30/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PAR13
Completed Document Type: Feasibility Study Report
Completed Date: 03/27/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Remedial Action Plan
Completed Date: 11/24/1993
Comments: RAP CBAOU 11/24/93 Completion of Proposed Plan and Record of Decision for the Central Base Area Operable Unit (CBAOU). The proposed Plan details the remedies considered and selected to clean groundwater and soil contamination in the CBA OU, and give the public the opportunity to comment on the proposed remedies. The Record of Decision explains the basis and purpose of the decision made by the Air Force to implement the remedies proposed in the proposed plan. Volume Treated, Stabilized, or Disposed: N/A Approximate cost $60,000.00

Completed Area Name: CBA
Completed Sub Area Name: BBPTS
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: SITE9
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: Feasibility Study Report
Completed Date: 02/22/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: DRMO
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IRP#S
Completed Document Type: Feasibility Study Report
Completed Date: 02/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST 13
Completed Document Type: Feasibility Study Report
Completed Date: 02/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NFA#S
Completed Document Type: Remedial Action Plan
Completed Date: 04/09/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ROAD
Completed Document Type: Finding of Suitability to Lease
Completed Date: 10/10/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ROAD
Completed Document Type: Environmental Baseline Survey
Completed Date: 09/30/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Finding of Suitability to Lease
Completed Date: 09/26/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-L
Completed Document Type: Environmental Baseline Survey
Completed Date: 07/21/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Date: 06/30/2005
Comments: completed

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 04/18/2005
Comments: The proposed plan public meeting was held on 8/11/2004

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 09/29/2005
Comments: DTSC concurred with the Basewide ROD, which addresses 22 Installation Restoration Program (IRP) sites, 73 areas of concern (AOC), the Small Arms Range, Building 752, and groundwater contamination in the Northeast Base Area. The ROD will enable properties at Norton Air Force Base to be transferred to the redevelopment authorities. The closed portions of the base are planned for air cargo, warehouses, commercial, and other industrial uses. The selected remedy for Site 2, a former landfill, is operation and maintenance of the landfill cover and gas extraction system. Excavation and off-site disposal was selected for Sites 7, 10, 17, Building 752, and AOC 33. In addition, institutional controls were selected for Sites 2, 5, 19, Small Arms Range, and AOC 4. All other facilities require no further action. The purchaser of sites with institutional controls as the selected remedy will be required to enter into a land use covenant with DTSC as an Air Force condition of sale.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: completed

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2006
Comments: Completed the review of 10/05 quarterly groundwater monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2006
Comments: Completed the review of 12th annual groundwater monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2006
Comments: Completed the review of 2005 offbase water supply annual report

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2006
Comments: Completed Site 2 annual O&M report

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 06/30/2006
Comments: Completed the review of 1st quarter 2006 Site 2 landfill gas O&M report

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/27/2006
Comments: The Air Force removed 19,000 cubic yards of dioxin contaminated soil. Of this soil, 2,700 cubic yards were classified as California hazardous wastes and disposed at a permitted hazardous waste facility. The remaining soil was transported to a nearby city disposal facility to be used as landfill cover. The Air Force took 18 confirmation soil samples and calculated the post-removal risk to human health and sensitive burrowing animals. The results indicated that the combined child/adult excess cancer risk is 1.7x10-6. The non cancer hazard index for children is 1.2x10-2 at the golf course area and 3.3x10-2 at the habitat area. For adults, the non-cancer hazard index for the golf course portion is 3.8x10-4 and 1.1x10-2 for the habitat area

Completed Area Name: PROJECT WIDE

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/14/2005
Comments: The action cosisted of demolishing 11 metal sheds and their floors, removing the top foot of soil (440 cubic yards), and taking confirmation samples. The calculated human health risk is 1.1x10-5 excess cancer risk and 0.02 in hazard index. The site may be suitable for unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/26/2005
Comments: The Air Force excavated and disposed 560 cubic yards of soil soil contaminated with metal and petroleum hydrocarbons. The confirmation samples indicate no contaminants of concern exceeding the clean up goals. The site may be suitable for unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/25/2006
Comments: DTSC approved Site 7 closure report under CERCLA. The Air Force removed 12 concrete sludge drying beds and associated PAH-contaminated soil. A total of 113 cubic yards of concrete and 405 cubic yards of soil were excavated and disposed of. Confirmation sampling indicate that current excess cancer risk is 2x10-6.

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/08/2005
Comments: Secondary document. Revised document is not required

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/30/2006
Comments: DTSC concurred with the findings in the 2nd 5-year review report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/07/2006
Comments: Secondary document (groundwater monitoring report, 2nd quarter 2006) accepted

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/07/2006
Comments: Secondary document accepted.

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Operation and Maintenance Report
Completed Date: 12/07/2006

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: Secondary document accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 03/07/2007
Comments: The Offbase Water Supply Contingency Annual Report has been incorporated into the Basewide annual groundwater monitoring report and was reviewed together.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL-C
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/24/2007
Comments: DTSC approved the property transfer with 2 SLUCs

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Parcels B1C & E3E
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/26/2007
Comments: Both the FOST & LUC are finalized.

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/11/2007
Comments: DTSC approved the report on 1/11/2007

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Other Report
Completed Date: 08/24/2006
Comments: On 10/3/05, Geologic entered Site 2 Landfill with a backhoe and dug 6 potholes. This report documents Geologic's repair work on 5/9-10/06. The RA work is complete and accepted by all BCT members.

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Other Report
Completed Date: 01/11/2007
Comments: The decommissioning of Central Base Area and Base Boundary groundwater pump and treat systems performed in five phases began in December 2001 and completed in February 2006. The final report was accepted on Jan 11, 2007.

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Other Report
Completed Date: 01/29/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/16/2009
Comments: accepted

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: BASEWIDE
Completed Sub Area Name: AOC 33
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 10/07/2010
Comments: Finalized

Completed Area Name: BASEWIDE
Completed Sub Area Name: Ste 17
Completed Document Type: Site Characterization Workplan
Completed Date: 03/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 10/07/2010
Comments: finalized

Completed Area Name: BASEWIDE
Completed Sub Area Name: AOC 33
Completed Document Type: Site Characterization Workplan
Completed Date: 03/23/2011
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWL
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/01/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/01/2002
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: B752
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/03/2013
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Date: 09/29/2015
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Site Characterization Report
Completed Date: 09/07/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/10/2016
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Site Characterization Report
Completed Date: 09/06/2016
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/05/2018
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: Site 2
Completed Document Type: Operation and Maintenance Report
Completed Date: 08/05/2020
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Removal Action Completion Report
Completed Date: 08/05/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Engineering Evaluation / Cost Analysis
Completed Date: 08/12/1991
Comments: Filed Neg. Dec. with State clearing house in comp. w/ CEQA

Completed Area Name: CBA
Completed Sub Area Name: B#763
Completed Document Type: Removal Action Completion Report
Completed Date: 06/27/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 01/30/1990
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: BASEWIDE
Completed Sub Area Name: STE10
Completed Document Type: Remedial Action Plan
Completed Date: 11/20/2003
Comments: RAP - SITE 10 (Removal action at Site 10 and 12): Following the finalization of Basewide Feasibility Study Report, the AF issued this document for conducting soil removal at these sites to accelerate cleanup actions at the former Norton AFB. Because of the endangered species, the AF will conduct formal consultation with US Fish and Wildlife and obtain permits from California Dept. of Fish and Game. The detected contamination is within four feet of ground surface, the AF will restrict depth of excavation accordingly. Also, because part of Site 10 is now potions of a golf course, part of the golf course will be closed during the removal action. Excavated soil will be profiled and sent to a regulated landfill. Once the removal action is complete, no further remedial actions are anticipated at these sites.

Completed Area Name: BASEWIDE
Completed Sub Area Name: STE10
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 01/27/2004
Comments: RAW - STE10: Because of the San Bernadino Kangaroo Rat, the Air Force will trap and relocate the animals and set up fences to prevent burrowing animals from crawling back into the excavation area during removal. The Air Force will remove the top two feet of soil and then depending on the presence of ash layers and fieldscreening sampling results to determine whether additional two feet of soil will be removed or not. After excavation, the AF will take confirmation soil samples and analyze them for dioxins/furans and metals. If excessive contamination remains, excavation will resume. Once the removal action is complete, the AF will restore the site to pre-excavation conditions.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SSWR
Completed Document Type: Environmental Baseline Survey
Completed Date: 08/31/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: C1
Completed Document Type: Environmental Baseline Survey
Completed Date: 08/30/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SSWR
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/31/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: C1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/30/1999
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: BASEWIDE
Completed Sub Area Name: Site 2
Completed Document Type: Removal Action Completion Report
Completed Date: 07/21/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PL-C1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/15/1999
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: RA - SAR: Between July and October 1997 Earth Tech, a remedial contractor hired by the Air Force excavated, treated and disposed of lead contaminated soils down to 2 feet bgs at the base of the SAR and 4 feet into the impact berm. A total of 11,478 tons of soil was excavated and processed at IRP Site 2. Of this amount 210 tons were bullet fragments and small rocks which were classified as RCRA Hazardous waste and were disposed of offsite at Laidlaw Environmental Services landfill in Westmoreland, California. Approximately 2,100 tons were stabilized by adding 15% Portland Cement and processing through a pug mill. None of the stabilized soil met the treatment standard so all of it was sent offsite to Browning Ferris Industries (BFI) landfill in La Paz, Arizona as a California hazardous, non-RCRA waste.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1
Completed Document Type: Environmental Baseline Survey
Completed Date: 02/10/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1999
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: ste10
Completed Document Type: Removal Action Completion Report
Completed Date: 10/29/1998
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: AOC70
Completed Document Type: Removal Action Completion Report
Completed Date: 10/29/1998
Comments: RA - AOC70: The Removal Action goal for AOC 70 was to excavate and remove soil containing contaminants of concern: PCBs, benzo(a pyrene, benzo(b)flouranthene, benzo(k)-flouranthene, TPH-diesel and TPH-gasoline at depths up to 10 feet. Approximately 1632 cubic yards of material was excavated, treated and disposed off- site.

NORTON AIR FORCE BASE (Continued) **S101272838**

Confirmation samples were then taken, analyzed and the determination was made that the objectives were met. The area was then backfilled with clean fill and graded. ‘ RA - IRP10: The Removal Action goal for IRP Site 10 was to excavate and remove soil containing contaminants of concern: lead arsenic and chromium at depths up to three feet or one foot below the ash layer, as this was the zone of ecological risk. Approx. 224 cubic yards of non-hazardous material was disposed of at the base landfill, IRP Site 2 and approximately 116 cubic yards of potentially hazardous waste were excavated and disposed off site. Confirmation samples were then taken, analyzed and the determination was made that the objectives were met. The area was then backfilled with clean fill and graded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 06/23/2003
Comments: RIFS - BSWD: The BCT has disputed on the implementation of institutional control in 1999. While the resolution state that the AF will issue post-ROD primary documents to specify IC requirements, the revised BSWD FS denied such a commitment and states that ICs are AF’s voluntary acts. The implementation of ICs shouldn’t be overseeing by regulatory agencies. After much discussion EPA, DTSC, RWQCB, and the AF agreed to postpone the dispute of IC implementation until the draft ROD is issued. The regulatiory agencies thus approved the proposed remedies for the sites included in this BSWD FS.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-2A
Completed Document Type: Environmental Baseline Survey
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-1
Completed Document Type: Environmental Baseline Survey
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-2A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE17
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 05/07/1998
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: * Remedial or Removal Design
Completed Date: 12/29/1997
Comments: DES - SITE2: As a result of trenching activities and in accordance with Title 27, California Code of Regulations, the intent of this plan is to upgrade waste management units to closure standards established in regulations. This activity is equivalent to a RAP since it will cost approxi- mately $13,700,000.00. The public and regulatory agencies have had an opportunity to comment and all comments have been adeguately addressed by the PRP. Activities which will take place from February 1998 to December 1998 include: landfill gas extraction and treatment, waste consolidation of approximately 120,000 cubic yards from the northeast, confirmation sampling of consolidated material, a monolithic cover, drainage control, groundwater monitoring and long term operation and maintenance activities.

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Remedial Action Plan
Completed Date: 12/29/1997
Comments: RAP - SITE2: As a result of trenching activities and in accordance with Title 27, California Code of Regulations, the intent of this plan is to upgrade waste management units to closure standards established in regulations. This activity is equivalent to a RAP since it will cost approxim- ately $ 13,700,000.00. The public and regulatory agencies have had an opportunity to comment and all comments have been adequately addressed by the PRP. Activities which will take place from February 1998 to December 1998 include: landfill gas extraction and treatment, waste consolidation of approximately 120,000 cubic yards from the northeast, confirmation sampling of consolidated material, a monolithic, cover, drainage control, groundwater monitoring and long term operation and maintenance activities.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P1-3A
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/23/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P1-3A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/23/1998
Comments: Not reported

Completed Area Name: BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: Removal Action Completion Report
Completed Date: 12/29/1997
Comments: RA - SITE1: A removal action was implemented as a result of an Actrion Memorandum completed in March 1996. the removal action was implemented in two phases between November 1996 and July 1997. A total of approximately 20,900 tons of soils exceeding cleanup levels were excavated and disposed of off- base at an appropriate facility.

NORTON AIR FORCE BASE (Continued) **S101272838**

Approximately 3,800 square feet of material above the cleanup levels were left in place as they were not extractable during the removal effort. The excavation was subsequently back filled and the graded to its original levels. In addition, three new monitoring wells were installed for monitoring purposes. A Long Term Ground- water Monitoring plan will be implemented as a result of leaving matreials in place.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST5SV
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST5SO
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E2
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E1
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 6AOCS
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 6AOCS
Completed Document Type: Feasibility Study Report
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Sub Area Name: AOC73
Completed Document Type: Removal Action Completion Report
Completed Date: 06/23/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AOC38
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AOC37
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SITE8
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: RA - SITE 8: The removal actions involved the excavation and disposal of 1,553 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan. RA - AOC37: The removal actions involved the excavation and disposal of 8,925 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan. RA - AOC38: The removal actions involved the excavation and disposal of 1,603 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE14
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/27/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT13
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E4
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E4
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1A
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B1234
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/15/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/15/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B1234
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/12/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-A
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/12/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT20
Completed Document Type: Feasibility Study Report
Completed Date: 07/23/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Finding of Suitability to Transfer

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NCO-H
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/08/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NCO-H
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/11/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: OFFCR
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/08/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: OFFCR
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/11/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K4
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K4
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K2
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-J1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 12/18/1996
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I3
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I3
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I2
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K3
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-H
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-H
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-F
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/20/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-F
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: OU2&3
Completed Sub Area Name: BBP&T
Completed Document Type: Operation and Maintenance Plan

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Date: 10/28/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: EXPOR
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 09/10/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: SVECB
Completed Document Type: Operation and Maintenance Plan
Completed Date: 08/22/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-3
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-3
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-2
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-2
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-1
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-1
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/24/1996
Comments: Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Finding of Suitability to Lease
Completed Date: 06/30/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P M
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-L
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/30/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K3
Completed Document Type: Finding of Suitability to Lease
Completed Date: 05/05/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K3
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: UTILS
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/16/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/16/1995
Comments: Not reported

Future Area Name: BASEWIDE
Future Sub Area Name: AOC 33
Future Document Type: Removal Action Completion Report

NORTON AIR FORCE BASE (Continued) **S101272838**

Future Due Date:	2021
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Site Characterization Report
Future Due Date:	2021
Schedule Area Name:	BASEWIDE
Schedule Sub Area Name:	Ste 17
Schedule Document Type:	Removal Action Completion Report
Schedule Due Date:	02/12/2021
Schedule Revised Date:	10/20/2021
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	5 Year Review Reports
Schedule Due Date:	02/23/2021
Schedule Revised Date:	06/04/2021
Schedule Area Name:	BASEWIDE
Schedule Sub Area Name:	Ste 17
Schedule Document Type:	Site Characterization Report
Schedule Due Date:	05/27/2020
Schedule Revised Date:	03/20/2021
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Certification
Schedule Due Date:	04/29/2021
Schedule Revised Date:	Not reported

Calsite:

Name:	Norton Air Force Base
Address:	2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City:	SAN BERNARDINO
Region:	GLENDALE
Facility ID:	36970004
Facility Type:	CLOSE
Type:	CLOSED MILITARY BASE
Branch:	SO
Branch Name:	OMF-SOUTHERN CALIF
File Name:	Not reported
State Senate District:	05011986
Status:	ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency:	ENVIRONMENTAL PROTECTION AGENCY
NPL:	Listed
SIC Code:	97
SIC Name:	NATIONAL SECURITY/INTERNATIONAL AFFAIRS
Access:	Controlled
Cortese:	Not reported
Hazardous Ranking Score:	Not reported
Date Site Hazard Ranked:	Not reported
Groundwater Contamination:	Confirmed
Staff Member Responsible for Site:	SNIOU
Supervisor Responsible for Site:	Not reported
Region Water Control Board:	SA
Region Water Control Board Name:	SANTA ANA
Lat/Long Direction:	Not reported
Lat/Long (dms):	0 0 0 / 0 0 0
Lat/long Method:	Not reported
Lat/Long Description:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

State Assembly District Code:	64
State Senate District Code:	37
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	E-2A
Proposed Budget:	0
AWP Completion Date:	10161998
Revised Due Date:	Not reported
Comments Date:	10161998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-L
Proposed Budget:	0
AWP Completion Date:	08301995
Revised Due Date:	Not reported
Comments Date:	08301995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-N
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P-K3
Proposed Budget:	0
AWP Completion Date:	05051995
Revised Due Date:	Not reported
Comments Date:	05051995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	UTILS
Proposed Budget:	0
AWP Completion Date:	02161995
Revised Due Date:	Not reported
Comments Date:	02161995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P-K1
Proposed Budget:	0
AWP Completion Date:	02161995
Revised Due Date:	Not reported
Comments Date:	02161995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	7.60000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	CBA-S
Proposed Budget:	0
AWP Completion Date:	12071994
Revised Due Date:	Not reported
Comments Date:	12071994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	OU3
Proposed Budget:	0
AWP Completion Date:	12011994
Revised Due Date:	Not reported
Comments Date:	12011994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	CBAGW
Proposed Budget:	0
AWP Completion Date:	10071994
Revised Due Date:	Not reported
Comments Date:	10071994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	CBAGW
Proposed Budget:	0
AWP Completion Date:	09211994
Revised Due Date:	Not reported
Comments Date:	09211994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	IRP15
Proposed Budget:	0
AWP Completion Date:	06051994
Revised Due Date:	Not reported
Comments Date:	06051994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	CERFA
Activity Name:	COMMUNITY ENVIRONMENTAL RESPONSE FACILITATION ACT
AWP Code:	NAFB
Proposed Budget:	0
AWP Completion Date:	04191994
Revised Due Date:	Not reported
Comments Date:	04191994
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	BWEBS
Activity Name:	BASEWIDE ENVIRONMENTAL BASELINE SURVEY
AWP Code:	NAFB
Proposed Budget:	0
AWP Completion Date:	12231993
Revised Due Date:	Not reported
Comments Date:	12231993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	CBAOU
Proposed Budget:	0
AWP Completion Date:	02051993
Revised Due Date:	Not reported
Comments Date:	02051993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	GW

NORTON AIR FORCE BASE (Continued) **S101272838**

Proposed Budget:	0
AWP Completion Date:	12021992
Revised Due Date:	Not reported
Comments Date:	12021992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	DESIGN AND CONSTRUCTION OF A SYSTEM TO EXTRACT AND TREAT CONTAMINATEDGROUNDWATER, AND REINJECT CLEAN WATER TO THE AQUIFER.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FRIFS
Activity Name:	FOCUSED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	08121991
Revised Due Date:	Not reported
Comments Date:	08121991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	B#763
Proposed Budget:	0
AWP Completion Date:	06271991
Revised Due Date:	Not reported
Comments Date:	06271991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP

NORTON AIR FORCE BASE (Continued) **S101272838**

Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	6600
Liquids Treated (Gals):	6600
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 6,600 CY OF SOIL WERE REMOVED & TREATED BEFORE DISPOSALTO A CLASS III LANDFILL.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	01301990
Revised Due Date:	Not reported
Comments Date:	01301990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	STE10
Proposed Budget:	0
AWP Completion Date:	11202003
Revised Due Date:	Not reported
Comments Date:	11202003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STE10
Proposed Budget:	0
AWP Completion Date:	01272004
Revised Due Date:	Not reported
Comments Date:	01272004
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	SSWR
Proposed Budget:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

AWP Completion Date:	08311999
Revised Due Date:	Not reported
Comments Date:	08311999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	C1
Proposed Budget:	0
AWP Completion Date:	08301999
Revised Due Date:	Not reported
Comments Date:	08301999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	PCL-C
Proposed Budget:	0
AWP Completion Date:	12312006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	IRP-2
Proposed Budget:	0
AWP Completion Date:	07211999
Revised Due Date:	Not reported
Comments Date:	07211999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	180
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	X
Action Included Fencing:	X
Removal Action Certification:	N
Activity Comments:	141,800 CUBIC YARDS WERE CONSOLIDATED INTO THE LANDFILL.
For Commercial Reuse:	0
For Industrial Reuse:	15
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	PL-C1
Proposed Budget:	0
AWP Completion Date:	06151999
Revised Due Date:	Not reported
Comments Date:	06151999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SAR
Proposed Budget:	0
AWP Completion Date:	06091999
Revised Due Date:	Not reported
Comments Date:	06091999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	11478
Liquids Treated (Gals):	11478
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	A TOTAL OF 11,478 TONS OF SOIL WAS EXCAVATED AND PROCESSED AT IRP SITE 2.
For Commercial Reuse:	0.50000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-I1
Proposed Budget:	0
AWP Completion Date:	02101999
Revised Due Date:	Not reported
Comments Date:	02101999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	IRP10
Proposed Budget:	0
AWP Completion Date:	10291998
Revised Due Date:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date:	10291998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	116
Liquids Treated (Gals):	116
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 116 CUBIC YARDS OF POTENTIALLY HAZARDOUS WASTE WAS EXCAVATED AND DISPOSED OFF-SITE.
For Commercial Reuse:	0
For Industrial Reuse:	3
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	AOC70
Proposed Budget:	0
AWP Completion Date:	10291998
Revised Due Date:	Not reported
Comments Date:	10291998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	1632
Liquids Treated (Gals):	1632
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 1632 CUBIC YARDS OF MATERIAL WAS EXCAVATED, TREATED ANDDISPOSED OFF-SITE.
For Commercial Reuse:	0
For Industrial Reuse:	0.25000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	BSWD
Proposed Budget:	0
AWP Completion Date:	06232003
Revised Due Date:	Not reported
Comments Date:	06232003
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	E-1
Proposed Budget:	0
AWP Completion Date:	10161998
Revised Due Date:	Not reported
Comments Date:	10161998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STE17
Proposed Budget:	0
AWP Completion Date:	05071998
Revised Due Date:	Not reported
Comments Date:	05071998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Unknown Type:	0
Facility ID:	36970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	12291997
Revised Due Date:	Not reported
Comments Date:	12291997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	12291997
Revised Due Date:	Not reported
Comments Date:	12291997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P1-3A
Proposed Budget:	0
AWP Completion Date:	04231998
Revised Due Date:	Not reported
Comments Date:	04231998

NORTON AIR FORCE BASE (Continued) **S101272838**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SITE1
Proposed Budget:	0
AWP Completion Date:	12291997
Revised Due Date:	Not reported
Comments Date:	12291997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	5500
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	A TOTAL OF APPROXIMATELY 20,900 TONS OF SOILS EXCEEDING CLEANUP LEVELS WERE EXCAVATED AND DISPOSED OF OFF-BASE.
For Commercial Reuse:	0
For Industrial Reuse:	0.60000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	ST5SV
Proposed Budget:	0
AWP Completion Date:	06091999
Revised Due Date:	Not reported
Comments Date:	06091999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	6000
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	189,000 SQUARE FEET OF VAPORS TREATED WHICH RESULTED IN 22,556 LBS OFVOLATILE AND SEMI-VOLATILE ORGANICS BEING EXTRACTED FROM THE SUBSUR-FACE.
For Commercial Reuse:	1.50000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	ST5SO
Proposed Budget:	0
AWP Completion Date:	06091999
Revised Due Date:	Not reported
Comments Date:	06091999
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	25694
Liquids Treated (Gals):	25694
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	TOTAL 25,694 TONS TREATED AND DISPOSED.
For Commercial Reuse:	0
For Industrial Reuse:	1.50000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-E2
Proposed Budget:	0
AWP Completion Date:	06021997
Revised Due Date:	Not reported
Comments Date:	06021997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-E1
Proposed Budget:	0
AWP Completion Date:	06021997
Revised Due Date:	Not reported
Comments Date:	06021997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	6AOCS
Proposed Budget:	0
AWP Completion Date:	06251997
Revised Due Date:	Not reported
Comments Date:	06251997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	2.40000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	6AOCS
Proposed Budget:	0
AWP Completion Date:	06251997
Revised Due Date:	Not reported
Comments Date:	06251997

NORTON AIR FORCE BASE (Continued) **S101272838**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	AOC73
Proposed Budget:	0
AWP Completion Date:	06231997
Revised Due Date:	Not reported
Comments Date:	06231997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVED 2,000 POUNDS. WHICH IS APPROXIMATELY .89 CU YARDS
For Commercial Reuse:	0
For Industrial Reuse:	6.70000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	AOC38
Proposed Budget:	0
AWP Completion Date:	06191997
Revised Due Date:	Not reported
Comments Date:	06191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	1603
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	2 ACRES OF LAND RETURNED / RELEASED FOR REUSE.
For Commercial Reuse:	0
For Industrial Reuse:	2
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	AOC37
Proposed Budget:	0
AWP Completion Date:	06191997
Revised Due Date:	Not reported
Comments Date:	06191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	8925
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	2 ACRES OF LAND RETURNED / RELEASED FOR REUSE.
For Commercial Reuse:	0
For Industrial Reuse:	2
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SITE8
Proposed Budget:	0
AWP Completion Date:	06191997
Revised Due Date:	Not reported
Comments Date:	06191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	1533
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	1.5 ACRES OF LAND RETURNED / RELEASED FOR REUSE.
For Commercial Reuse:	0
For Industrial Reuse:	1.50000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STE14
Proposed Budget:	0
AWP Completion Date:	06271996
Revised Due Date:	Not reported
Comments Date:	06271996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT13
Proposed Budget:	0
AWP Completion Date:	06191997
Revised Due Date:	Not reported
Comments Date:	06191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	3290
Liquids Treated (Gals):	3040
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	0.35 ACRES OF LAND RETURNED/RELEASED FOR REUSE.
For Commercial Reuse:	0
For Industrial Reuse:	0.35000
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-E4
Proposed Budget:	0
AWP Completion Date:	04181997
Revised Due Date:	Not reported
Comments Date:	04181997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-I1A
Proposed Budget:	0
AWP Completion Date:	04181997
Revised Due Date:	Not reported
Comments Date:	04181997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	B1234
Proposed Budget:	0
AWP Completion Date:	10151997
Revised Due Date:	Not reported
Comments Date:	10151997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-A
Proposed Budget:	0
AWP Completion Date:	10151997
Revised Due Date:	Not reported
Comments Date:	10151997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SIT20
Proposed Budget:	0
AWP Completion Date:	07231996
Revised Due Date:	Not reported
Comments Date:	07231996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-K1
Proposed Budget:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	NCO-H
Proposed Budget:	0
AWP Completion Date:	02081997
Revised Due Date:	Not reported
Comments Date:	02081997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	OFFCR
Proposed Budget:	0
AWP Completion Date:	02081997
Revised Due Date:	Not reported
Comments Date:	02081997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	27
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-K4
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	16.40000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-K2
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	4.70000

NORTON AIR FORCE BASE (Continued) **S101272838**

Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-J1
Proposed Budget:	0
AWP Completion Date:	12181996
Revised Due Date:	Not reported
Comments Date:	12181996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	1.80000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-I3
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	111
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-I2
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997

NORTON AIR FORCE BASE (Continued) **S101272838**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	57
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-K3
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	2.20000
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-H
Proposed Budget:	0
AWP Completion Date:	02101997
Revised Due Date:	Not reported
Comments Date:	02101997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	19
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P-F
Proposed Budget:	0
AWP Completion Date:	01201997
Revised Due Date:	Not reported
Comments Date:	01201997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	BBP&T
Proposed Budget:	0
AWP Completion Date:	10281996
Revised Due Date:	Not reported
Comments Date:	10281996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	EXPOR
Proposed Budget:	0
AWP Completion Date:	09101996
Revised Due Date:	Not reported
Comments Date:	09101996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	SVECB
Proposed Budget:	0
AWP Completion Date:	08221996
Revised Due Date:	Not reported
Comments Date:	08221996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P E-3
Proposed Budget:	0
AWP Completion Date:	04081996
Revised Due Date:	Not reported
Comments Date:	04081996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P E-2
Proposed Budget:	0
AWP Completion Date:	04081996
Revised Due Date:	Not reported
Comments Date:	04081996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P E-1
Proposed Budget:	0
AWP Completion Date:	04081996
Revised Due Date:	Not reported
Comments Date:	04081996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	WATER
Proposed Budget:	0
AWP Completion Date:	09241996
Revised Due Date:	Not reported
Comments Date:	09241996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	P-N
Proposed Budget:	0
AWP Completion Date:	06301996
Revised Due Date:	Not reported
Comments Date:	06301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P M
Proposed Budget:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

AWP Completion Date:	04081996
Revised Due Date:	Not reported
Comments Date:	04081996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOST
Activity Name:	FINDING OF SUITABILITY TO TRANSFER
AWP Code:	P G-2
Proposed Budget:	0
AWP Completion Date:	04081996
Revised Due Date:	Not reported
Comments Date:	04081996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	OWSCP
Proposed Budget:	0
AWP Completion Date:	07031996
Revised Due Date:	Not reported
Comments Date:	07031996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	STE13
Proposed Budget:	0
AWP Completion Date:	06271996
Revised Due Date:	Not reported
Comments Date:	06271996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	BIO-T
Proposed Budget:	0
AWP Completion Date:	01291997
Revised Due Date:	Not reported
Comments Date:	01291997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	19300
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	CONTAMINATED SOIL EXCAVATED FROM FORMER UNDERGROUND STORAGE TANK (UST) LOCATIONS WERE TREATED ON BASE FROM SEPTEMBER 1995 TO DECEMBER 1996 USING BIOREMEDIATION.
For Commercial Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	IWTP
Proposed Budget:	0
AWP Completion Date:	10241996
Revised Due Date:	Not reported
Comments Date:	10241996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	9.8 TONS OF NON-HAZARDOUS SOIL WAS DISPOSED OF, 400 GALLONS OF NON-RCRA HAZARDOUS WASTE SLUDGE, AND 21,800 GALLONS OF NON- HAZARDOUS RINSEATE WATER WERE TREATED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	STE19
Proposed Budget:	0
AWP Completion Date:	07211997
Revised Due Date:	Not reported
Comments Date:	07211997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	PA1-3

NORTON AIR FORCE BASE (Continued) **S101272838**

Proposed Budget:	0
AWP Completion Date:	08221996
Revised Due Date:	Not reported
Comments Date:	08221996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAW
Activity Name:	REMOVAL ACTION WORKPLAN
AWP Code:	SITE1
Proposed Budget:	0
AWP Completion Date:	10021996
Revised Due Date:	Not reported
Comments Date:	10021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	EXSI
Proposed Budget:	0
AWP Completion Date:	10021996
Revised Due Date:	Not reported
Comments Date:	10021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	10&12
Proposed Budget:	0
AWP Completion Date:	10031996
Revised Due Date:	Not reported
Comments Date:	10031996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	DES
Activity Name:	DESIGN
AWP Code:	SITE5
Proposed Budget:	0
AWP Completion Date:	06251997
Revised Due Date:	Not reported
Comments Date:	06251997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	SOILR
Proposed Budget:	0
AWP Completion Date:	07231996
Revised Due Date:	Not reported
Comments Date:	07231996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	PEA
Activity Name:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Code:	OU2&3
Proposed Budget:	0
AWP Completion Date:	08221996
Revised Due Date:	Not reported
Comments Date:	08221996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	47
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SVECB
Proposed Budget:	0
AWP Completion Date:	06211996
Revised Due Date:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date:	06211996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	CONSTRUCTION AND STARTUP OF AN IN-SITU SOIL VAPOR EXTRACTION SYSTEM AT BUILDINGS 673 AND 763, IN THE CENTRAL BASE AREA.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SIT14
Proposed Budget:	0
AWP Completion Date:	06191997
Revised Due Date:	Not reported
Comments Date:	06191997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	420
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	0.05 ACRES OF LAND RETURNED/RELEASED FOR REUSE.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	04301996
Revised Due Date:	Not reported
Comments Date:	04301996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	PAR13
Proposed Budget:	0
AWP Completion Date:	03271996
Revised Due Date:	Not reported
Comments Date:	03271996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	CBAOU
Proposed Budget:	0
AWP Completion Date:	11241993
Revised Due Date:	Not reported
Comments Date:	11241993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	BBPTS
Proposed Budget:	0
AWP Completion Date:	04021996
Revised Due Date:	Not reported
Comments Date:	04021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	CONSTRUCTION AND STARTUP OF A GOUNDWATER TREATMENT FACILITY LOCATED AT THE SOUTHERN BOUNDARY OF THE BASE. 3 GROUNDWATER EXTRACTION WELLS
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	SITE9
Proposed Budget:	0
AWP Completion Date:	04021996
Revised Due Date:	Not reported
Comments Date:	04021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	490
Liquids Treated (Gals):	490
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	APPROXIMATELY 490 CY OF TCE CONTAMINATED SOIL WERE TREATED. AN ESTIMA TED 1,633 CY OF CHROMIUM CONTAMINATED SOIL, AND 914 TONS OF CHROMIUMCONTAMINATED CONCRETE WERE DISPOSED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	SITE1
Proposed Budget:	0
AWP Completion Date:	02221996

NORTON AIR FORCE BASE (Continued) **S101272838**

Revised Due Date:	Not reported
Comments Date:	02221996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	DRMO
Proposed Budget:	0
AWP Completion Date:	04021996
Revised Due Date:	Not reported
Comments Date:	04021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	3
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	REMOVAL OF BUILDINGS 964 AND 970, CONCRETE PADS, AND CONTAMINATED SOIL. SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS AND ARSENIC WERE MANIFESTED TO A LICENSED DISPOSAL FACILITY.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	IRP#S
Proposed Budget:	0
AWP Completion Date:	02021996
Revised Due Date:	Not reported
Comments Date:	02021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

NORTON AIR FORCE BASE (Continued) **S101272838**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	ST 13
Proposed Budget:	0
AWP Completion Date:	02021996
Revised Due Date:	Not reported
Comments Date:	02021996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	NFA#S
Proposed Budget:	0
AWP Completion Date:	04091996
Revised Due Date:	Not reported
Comments Date:	04091996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

NORTON AIR FORCE BASE (Continued) **S101272838**

For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	ROAD
Proposed Budget:	0
AWP Completion Date:	10101995
Revised Due Date:	Not reported
Comments Date:	10101995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	FOSL
Activity Name:	FINDING OF SUITABILITY TO LEASE
AWP Code:	WATER
Proposed Budget:	0
AWP Completion Date:	09261995
Revised Due Date:	Not reported
Comments Date:	09261995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	SITE5
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date:	04141995
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	CEQA
Activity Name:	CEQA INCLUDING NEGATIVE DECS
AWP Code:	GW
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11251991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	FFA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06291989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

NORTON AIR FORCE BASE (Continued) **S101272838**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	STE10
Proposed Budget:	0
AWP Completion Date:	06302008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	SITE2
Proposed Budget:	0
AWP Completion Date:	06302008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	36970004

NORTON AIR FORCE BASE (Continued) **S101272838**

Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	B752
Proposed Budget:	0
AWP Completion Date:	12312006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Alternate Address:	2,208 ACRES;58 MI EA OF LOS ANGELES, CA
Alternate City,St,Zip:	SAN BERNARDINO, CA 92409
Alternate Address:	I-10 - US 395
Alternate City,St,Zip:	NORTON AFB, CA 92409
Alternate Address:	I-10 - US 395
Alternate City,St,Zip:	SAN BERNARDINO, CA 92409
Alternate Address:	MAIN GATE AT 3RD STREET & 6TH STREET
Alternate City,St,Zip:	SAN BERNARDINO, CA 92409
Alternate Address:	NORTON AIR FORCE BASE
Alternate City,St,Zip:	SAN BERNARDINO, CA 92409
Background Info:	This site is a U.S. Air Force Military Command Base which began o perations in 1942. Norton's original function was to maintain an d repair aircraft. After World War II, the oper- ations were exp anded by providing maintenance, storage, and logistic support for various missile programs. Norton became a Military Airlift Wing in 1966. In 1968, the Aero- space Audiovisual Services establis hed its headquarters at Norton. Past waste management practices associated with base activities include drum burial, hazardous wa ste dispo- sal in unlined pits, storage of leaking drums, leakage of underground storage tanks, and materials spills. The practic es have resulted in significant soil and groundwater contaminatio n. Past disposal practices onsite have caused the release of larg e volumes of fuels, solvents, and luminescent dials and heavy met als to the soil and groundwater. Monitoring wells on the base ar e contaminated with methylene chloride, toluene, benzene and tric hloroethene (TCE). Chemicals found in the soil onsite include oi l and grease, hexavalent chromium, xylene and polychlorinated bip henyls (PCBs). There is a potential for direct worker contact wit h contami- nated onsite soils. Contaminants have migrated into th e soil and groundwater beneath the Base. The City of Riverside's drinking water supply wells are within 500 feet of waste disposa l onsite. Domestic wells owned by the City showed TCE contaminati on and levels of radionuclides above the maximum contaminant leve ls. The site was placed on the NPL on July 22, 1987. On June

NORTON AIR FORCE BASE (Continued) **S101272838**

29, 1989, EPA, DTSC, and DoD entered into a Federal Facility Agre
ement (FFA) to remediate contamination under EPA over- sight. DT
SC will support EPA's oversight of the DoD's reme- dial activitie
s. The FFA provides funding and will reim- burse the State for a
ll reasonable costs incurred during oversight of the IRP activiti
es. The FFA has established a procedural framework and schedule
for developing, implement- ing, and monitoring appropriate respon
se actions at the site. The State has also entered into a Defens
e/State Memo- randum of Agreement (DSMOA) with DoD which addresse
s State reimbursement.

Comments Date: 12291997
Comments: and the graded to its original levels. In addition, three new mo
Comments Date: 12291997
Comments: nitoring wells were installed for monitoring purposes. A Long Ter
Comments Date: 12291997
Comments: m Ground- water Monitoring plan will be implemented as a result o
Comments Date: 12291997
Comments: f leaving matreials in place.
Comments Date: 12301997
Comments: RAP - SITE2: As a result of trenching activities and in accordanc
Comments Date: 12301997
Comments: e with Title 27, California Code of Regulations, the intent of th
Comments Date: 12301997
Comments: is plan is to upgrade waste management units to closure standards
Comments Date: 12301997
Comments: established in regulations. This activity is equivalent to a RAP
Comments Date: 12301997
Comments: since it will cost approxim- ately $ 13,700,000.00. The public a
Comments Date: 12301997
Comments: nd regulatory agencies have had an opportunity to comment and all
Comments Date: 12301997
Comments: comments have been adequately addressed by the PRP. Activities w
Comments Date: 12301997
Comments: hich will take place from February 1998 to December 1998 include:
Comments Date: 12301997
Comments: landfill gas extraction and treatment, waste consolidation of ap
Comments Date: 12301997
Comments: proximately 120,000 cubic yards from the northeast, confirmation
Comments Date: 12301997
Comments: sampling of consolidated material, a monolithic, cover, drainage
Comments Date: 12301997
Comments: control, groundwater monitoring and long term operation and maint
Comments Date: 12301997
Comments: enance activities.
Comments Date: 04141995
Comments: aining area. Soils at IRP Site 5 are contaminated with hydrocarb
Comments Date: 04141995
Comments: ons, dioxins, metals, and polynuclear aromatic hydrocarbons (PAHs
Comments Date: 06201997
Comments: sal facility, if hazardous, or to IRP Site 2. Verification sampli
Comments Date: 01091998
Comments: DES - SITE2: As a result of trenching activities and in accordanc
Comments Date: 01091998
Comments: e with Title 27, California Code of Regulations, the intent of th
Comments Date: 01091998
Comments: is plan is to upgrade waste management units to closure standards
Comments Date: 01091998

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: established in regulations. This activity is equivalent to a RAP
Comments Date: 01091998
Comments: since it will cost approxi- mately $13,700,000.00. The public an
Comments Date: 01091998
Comments: d regulatory agencies have had an opportunity to comment and all
Comments Date: 01091998
Comments: comments have been adeguately addressed by the PRP. Activities wh
Comments Date: 01091998
Comments: ich will take place from February 1998 to December 1998 include:
Comments Date: 01091998
Comments: landfill gas extraction and treatment, waste consolidation of app
Comments Date: 01091998
Comments: roximately 120,000 cubic yards from the northeast, confirmation s
Comments Date: 01091998
Comments: ampling of consolidated material, a monolithic cover, drainage co
Comments Date: 01091998
Comments: ntrol, groundwater monitoring and long term operation and mainten
Comments Date: 01091998
Comments: ance activities.
Comments Date: 01142005
Comments: The site may be suitable for unrestricted use.
Comments Date: 01262005
Comments: Site may be suitable for unrestricted use.
Comments Date: 01272004
Comments: RAW - STE10: Because of the San Bernadino Kangaroo Rat, the Air F
Comments Date: 01272004
Comments: orce will trap and relocate the animals and set up fences to prev
Comments Date: 01272004
Comments: ent burrowing animals from crawling back into the excavation area
Comments Date: 01272004
Comments: during removal. The Air Force will remove the top two feet of s
Comments Date: 01272004
Comments: oil and then depending on the presence of ash layers and fieldscr
Comments Date: 01272004
Comments: eening sampling results to determine whether additional two feet
Comments Date: 01272004
Comments: of soil will be removed or not. After excavation, the AF will ta
Comments Date: 01272004
Comments: ke confirmation soil samples and analyze them for dioxins/furans
Comments Date: 01272004
Comments: and metals. If excessive contamination remains, excavation will
Comments Date: 01272004
Comments: resume. Once the removal action is complete, the AF will restore
Comments Date: 01272004
Comments: the site to pre-excavation conditions.
Comments Date: 01301997
Comments: RA for BIO-T: 19300 cubic yards of soil were treated and
Comments Date: 01301997
Comments: they will be used as fill for the landfill 2 cap.
Comments Date: 02051993
Comments: Final FS for the Central Base Area (CBA) OU was approved. The CBA
Comments Date: 02051993
Comments: OU is OU#1 which addresses groundwater contamination and all sou
Comments Date: 02051993
Comments: rces.
Comments Date: 02061996
Comments: RA - DRMO This removal action consisted of the closure of two bui

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date:	02061996
Comments:	ldings used for storage of hazardous waste in accordance with RCR
Comments Date:	02061996
Comments:	A. Three and one quarter cubic yards of soil contaminated with pe
Comments Date:	02061996
Comments:	troleum hydrocarbons and arsenic were also removed and sent to a
Comments Date:	02061996
Comments:	licensed disposal facility. Approximate cost: $450,000.00; fundin
Comments Date:	02061996
Comments:	g: BRAC I
Comments Date:	03111993
Comments:	A public meeting was held at the San Bernardino City Hall to
Comments Date:	03111993
Comments:	receive public comments on the draft Proposed Plan for the
Comments Date:	03111993
Comments:	CBA OU. Public comment period would end 3/18/93. Fact Sht.
Comments Date:	03111993
Comments:	and Public Notice went out 2/11/93.
Comments Date:	03121996
Comments:	RA - BBPTS
Comments Date:	03121996
Comments:	This is the one of components of the final remedial action
Comments Date:	03121996
Comments:	for the Central Base Area Operable Unit. The system
Comments Date:	03121996
Comments:	consists of three groundwater extraction wells, a treatment
Comments Date:	03121996
Comments:	plant including pumps, and air stripper, air blower,
Comments Date:	03121996
Comments:	off-gas treatment system, computerized control unit,
Comments Date:	03121996
Comments:	storage tanks, piping, and seven injection wells.
Comments Date:	03121996
Comments:	The system extracts TCE contaminated groundwater at a
Comments Date:	03121996
Comments:	maximum capacity of 2,500 gallons per minute, strips the
Comments Date:	03121996
Comments:	TCE and other volatile organic compounds from the water,
Comments Date:	03121996
Comments:	and reinjects it to the same aquifer to maintain hydraulic
Comments Date:	03121996
Comments:	control of the plume. TCE and other compounds are adsorbed
Comments Date:	03121996
Comments:	in the off-gas treatment system on granular activated
Comments Date:	03121996
Comments:	carbon to comply with air quality standards. Carbon is
Comments Date:	03121996
Comments:	sent to a reclycling facility after is spent.
Comments Date:	03121996
Comments:	The system will extract aproximately 1.1 billion gallons
Comments Date:	03121996
Comments:	of contaminated water per year, and treat about 200 pounds
Comments Date:	03121996
Comments:	of TCE per year. Approximate Cost: $7,500,000.00; BRAC I
Comments Date:	04141995
Comments:	BUILDING 658 CLEANUP OF SHALLOW SUBSTANCE TRICHLOROETHYLENE (TCE)
Comments Date:	04141995

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments:	CONTAMINATED SOILS BY EX-SITU SOIL VAPOR EXTRATION. THIS ACTIVIT
Comments Date:	04141995
Comments:	Y IS THE ONE OF THE SELECTED REMEDIES DESCRIBED IN THE NOVEMBER 2
Comments Date:	04141995
Comments:	4, 1993, CENTRAL BASE AREA OPERABLE UNIT RECORD OF DECISION (ROD)
Comments Date:	04141995
Comments:	, SECTION 9.2.2. THE NOVEMBER 18, 19 ENGINEERING DESIGN REPORT D
Comments Date:	04141995
Comments:	ESCRIBED THE REMEDIAL ACTIONS TO BE IMPLEMENTED AT BUILDING 658.
Comments Date:	04141995
Comments:	THESE ACTIONS CONSIST OF: EXCAVATION OF TCE-CONTAMINATED SOIL AT
Comments Date:	04141995
Comments:	BUILDING 658, AND REMOVAL OF A SUMP AND ASSOCIATION APPURTENANCES
Comments Date:	04141995
Comments:	; TRANSPORT OF THE SOIL FROM BUILDING 658 TO A ON-BASE LOCATION;
Comments Date:	04141995
Comments:	CONSTRUCTION OF AN EX-SITU TREATMENT CELL AND VAPOR ABATEMENT SYS
Comments Date:	04141995
Comments:	TEM TO REMEDIATE THE EXCAVATED SOIL USING VAPOR EXTRATION; OPERAT
Comments Date:	04141995
Comments:	ION OF THE EX-SITU TREATMENT SYSTEM UNTIL TCE CONCENTRATIONS ARE
Comments Date:	04141995
Comments:	BELOW LEVELS PRESCRIBED IN THE ROD; AND SITE RESTORATION, INCLUDI
Comments Date:	04141995
Comments:	NG BACKFILL OF THE EXCAVATION AND RESURFACING OF THE DISTURBED AR
Comments Date:	04141995
Comments:	EA. RESULT OF THE CONFIRMATION SAMPLING DID NOT DETECT ANY CONCEN
Comments Date:	04141995
Comments:	TRATIONS ABOVE THE CLEANUP STANDARD (5UG/L IN LEACHATE ANALYZED B
Comments Date:	04141995
Comments:	Y THE TOXIC CHARACTERISTICS LEACHING PROCEDURE (TCP)). ORDER In
Comments Date:	04141995
Comments:	stallation Restoration Program (IRP) Site 5 is the former fire tr
Comments Date:	04141995
Comments:	). The proposed remedial actions will meet industrial reuse and
Comments Date:	04141995
Comments:	groundwater protection based Target Cleanup Goals (TCGs) and will
Comments Date:	04141995
Comments:	consist of: - Soil Vapor Extraction (SVE), including activated
Comments Date:	04141995
Comments:	carbon treatment of extracted vapors, to reduce hydrocarbon cont
Comments Date:	04141995
Comments:	am- ination in site soils to below groundwater protection based T
Comments Date:	04141995
Comments:	CGs; - Excavation and offsite landfill disposal of soils contai
Comments Date:	04141995
Comments:	n- ing dioxin concentrations in excess of industrial reuse TCGs a
Comments Date:	04141995
Comments:	t a licensed Subtitle C disposal facility permitted to accept dio
Comments Date:	04141995
Comments:	xin-contaminated soils; - Excavation, stabilization, and transp
Comments Date:	04141995
Comments:	ort to IRP Site 2 Landfill (to be used as fill material for landf
Comments Date:	04141995
Comments:	ill closure cap) of metal- and PAH-contaminated soil above the in
Comments Date:	04141995
Comments:	dus- trial reuse TCGs; - Excavation and transport to IRP Site 2

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date: 04141995
Comments: (without stabil- ization), of metal- and PAH-contaminated soils
Comments Date: 04141995
Comments: above the industrial reuse TCGs and classified as California nonh
Comments Date: 04141995
Comments: azardous. VOLUME TREATED, STABILIZED, OR DISPOSED: Approximatel
Comments Date: 04141995
Comments: y 6000 cubic yards APPROXIMATE COST: $500,000
Comments Date: 05141998
Comments: RAW - STE17: The remedy which was agreed upon by the Dispute
Comments Date: 05141998
Comments: Resolution Committee (DRC) was monitoring by installing two
Comments Date: 05141998
Comments: additional wells. This Work Plan approves the implementation
Comments Date: 05141998
Comments: of these two wells.
Comments Date: 05161995
Comments: engineering design building 673 and 763 trichloroethylene
Comments Date: 05161995
Comments: (TCE) source area remediation by in situ vapor extraction.
Comments Date: 05161995
Comments: this activity is one of the selected remedies described
Comments Date: 05161995
Comments: in the november 24, 1993 report, central base area operable
Comments Date: 05161995
Comments: unit record of decision (ROD), sections 9.2.1 and 9.2.2.
Comments Date: 05161995
Comments: the report describes the design, implementation, and oper-
Comments Date: 05161995
Comments: ation of the soil vapor extraction system to accomplish the
Comments Date: 05161995
Comments: remediation of the TCE soil contamination in the areas of
Comments Date: 05161995
Comments: building 673 and 763. soil vapor extraction wells will be
Comments Date: 05161995
Comments: installed as mecessary to delineate the TCE plume. A vapor
Comments Date: 05161995
Comments: extraction and treatment system, including all necessary
Comments Date: 05161995
Comments: equipment such as blowers, moisture separator, process
Comments Date: 05161995
Comments: cooler, carbon adsorbers, instrumentation and controls,
Comments Date: 05161995
Comments: will be constructed.
Comments Date: 05301986
Comments: This is the date the site was first listed pursuant to
Comments Date: 05301986
Comments: section 25356.
Comments Date: 06051994
Comments: RI/FS - IRP15 -- DTSC approved the Remediation Investigation/Feas
Comments Date: 06051994
Comments: ibility Study for IRP15 on June 5, 1994. Approximate cost = $4,0
Comments Date: 06051994
Comments: 00,000; funding = BRAC.
Comments Date: 06081992
Comments: Air force began pumping the Central Base Area (CBA) plume as
Comments Date: 06081992

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: a treatability study. The EE/CA showed that the rate of
Comments Date: 06081992
Comments: pumping of the initial system (200gpm) will have little or
Comments Date: 06081992
Comments: no effect on the CBA plume, so cannot reasonably be called a
Comments Date: 06081992
Comments: removal action. The system cost $3 M and consists of two
Comments Date: 06081992
Comments: extraction and one injection well.
Comments Date: 06101999
Comments: RA - SAR: Between July and October 1997 Earth Tech, a remedial co
Comments Date: 06101999
Comments: ntractor hired by the Air Force excavated, treated and disposed o
Comments Date: 06101999
Comments: f lead contaminated soils down to 2 feet bgs at the base of the S
Comments Date: 06101999
Comments: AR and 4 feet into the impact berm. A total of 11,478 tons of soi
Comments Date: 06101999
Comments: l was excavated and processed at IRP Site 2. Of this amount 210 t
Comments Date: 06101999
Comments: ons were bullet fragments and small rocks which were classified a
Comments Date: 06101999
Comments: s RCRA Hazardous waste and were disposed of offsite at Laidlaw En
Comments Date: 06101999
Comments: vironmental Services landfill in Westmoreland, California. Appro
Comments Date: 06101999
Comments: ximately 2,100 tons were stabilized by adding 15% Portland Cement
Comments Date: 06101999
Comments: and processing through a pug mill. None of the stabilized soil
Comments Date: 06101999
Comments: met the treatment standard so all of it was sent offsite to Brown
Comments Date: 06101999
Comments: ing Ferris Industries (BFI) landfill in La Paz, Arizona as a Cali
Comments Date: 06101999
Comments: fornia hazardous, non-RCRA waste.
Comments Date: 06141999
Comments: 5 YEAR - OU1: The Five Year Review documents that all of the CBA
Comments Date: 06141999
Comments: OU actions are either complete or underway. This review is a Type
Comments Date: 06141999
Comments: Ia as the remedy has not achieved ARAR's. The ROD standards for
Comments Date: 06141999
Comments: groundwater have not been achieved for TCE. From an initial
Comments Date: 06141999
Comments: concentration of 4,000 ug/l at MW90, the average concentrations
Comments Date: 06141999
Comments: for the pump and treat system is 2.1 ug/l. This has been deemed
Comments Date: 06141999
Comments: Operating Properly and Successfully by the regulators. The system
Comments Date: 06141999
Comments: is expected to reach ROD standards in 16 years. From October 4,
Comments Date: 06141999
Comments: 1995 to April 1997 over 7,500 lbs TCE were extracted from
Comments Date: 06141999
Comments: component 2, deep soils. Confirmation results indicate that
Comments Date: 06141999
Comments: approximately 770 lbs are left in place in tight soil formations.

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date: 06141999
Comments: Component 3, shallow soils, excavated approximately 350 cubic
Comments Date: 06141999
Comments: yards of TCE contaminated soil and were successfully treated
Comments Date: 06141999
Comments: using SVE and a carbon air treatment. Component 4, shallow soils
Comments Date: 06141999
Comments: associated with IRP 9, resulted in 2,123 tons of TCE contaminated
Comments Date: 06141999
Comments: material and 914 tons of concrete being excavated and disposed
Comments Date: 06141999
Comments: in a RCRA Subtitle C disposal facility.
Comments Date: 06201997
Comments: RA - SITE 8: The removal actions involved the excavation and disp
Comments Date: 06201997
Comments: osal of 1,553 cubic yards of contaminated soil either to an offsi
Comments Date: 06201997
Comments: te disposal facility, if hazardous, or to IRP Site 2. Verificatio
Comments Date: 06201997
Comments: n sampling was conducted to document that target cleanup goals (T
Comments Date: 06201997
Comments: CGS) identified in the Final Action Memoran- dum were achieved. S
Comments Date: 06201997
Comments: ite restoration was also performed. Confirmation surface soil sam
Comments Date: 06201997
Comments: ples were collected from the excavations to assess if cleanup goa
Comments Date: 06201997
Comments: ls had been attained, in accordance with the Work Plan. RA - AO
Comments Date: 06201997
Comments: C37: The removal actions involved the excavation and disposal of
Comments Date: 06201997
Comments: 8,925 cubic yards of contaminated soil either to an offsite dispo
Comments Date: 06201997
Comments: ng was conducted to document that target cleanup goals (TCGS) ide
Comments Date: 06201997
Comments: ntified in the Final Action Memoran- dum were achieved. Site rest
Comments Date: 06201997
Comments: oration was also performed. Confirmation surface soil samples wer
Comments Date: 06201997
Comments: e collected from the excavations to assess if cleanup goals had b
Comments Date: 06201997
Comments: een attained, in accordance with the Work Plan. RA - AOC38: The r
Comments Date: 06201997
Comments: emoval actions involved the excavation and disposal of 1,603 cub
Comments Date: 06201997
Comments: ic yards of contaminated soil either to an offsite disposal faci
Comments Date: 06201997
Comments: lity, if hazardous, or to IRP Site 2. Verification sampling was c
Comments Date: 06201997
Comments: onducted to document that target cleanup goals (TCGS) identified
Comments Date: 06201997
Comments: in the Final Action Memoran- dum were achieved. Site restoration
Comments Date: 06201997
Comments: was also performed. Confirmation surface soil samples were collec
Comments Date: 06201997
Comments: ted from the excavations to assess if cleanup goals had been att
Comments Date: 06201997

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: ained, in accordance with the Work Plan.
Comments Date: 06232003
Comments: RIFS - BSWD: The BCT has disputed on the implementation of instit
Comments Date: 06232003
Comments: utional control in 1999. While the resolution state that the AF
Comments Date: 06232003
Comments: will issue post-ROD primary documents to specify IC requirements,
Comments Date: 06232003
Comments: the revised BSWD FS denied such a commitment and states that ICs
Comments Date: 06232003
Comments: are AF's voluntary acts. The implementation of ICs shouldn't be
Comments Date: 06232003
Comments: overseeing by regulatory agencies. After much discussion EPA, D
Comments Date: 06232003
Comments: TSC, RWQCB, and the AF agreed to postpone the dispute of IC imple
Comments Date: 06232003
Comments: mentation until the draft ROD is issued. The regulatiory agencie
Comments Date: 06232003
Comments: s thus approved the proposed remedies for the sites included in t
Comments Date: 06232003
Comments: his BSWD FS.
Comments Date: 06261997
Comments: DES - SITE5: The Engineering Design report establishes the
Comments Date: 06261997
Comments: implementation procedures for the removal action. It also
Comments Date: 06261997
Comments: establishes procedures for verification of the obtainment of
Comments Date: 06261997
Comments: the cleanup goals. The procedures for removal involve
Comments Date: 06261997
Comments: excavation, stabilization and disposal of contaminated soil.
Comments Date: 06261997
Comments: Not reported
Comments Date: 06261997
Comments: RIFS - 6AOCS: An Engineering Evaluation/Cost Analysis(EE/CA)
Comments Date: 06261997
Comments: was prepared to address the remedial action alternatives for
Comments Date: 06261997
Comments: the six areas of concern. The EE/CA presented an evaluation
Comments Date: 06261997
Comments: of the technological alternatives for the non-time critical
Comments Date: 06261997
Comments: remedial action at the AOCs. The EE/CA was submited to a 30
Comments Date: 06261997
Comments: day public coment period.
Comments Date: 06261997
Comments: Not reported
Comments Date: 06261997
Comments: RAW - 6AOCS: Given the low risk to human health, the remedy
Comments Date: 06261997
Comments: chosen at AOCs 4, 18, 33, 39, and 40 is the placement of
Comments Date: 06261997
Comments: institutional controls (i.e., deed restrictions). The
Comments Date: 06261997
Comments: remedy at AOC 70 will be excavation of soil that contains
Comments Date: 06261997
Comments: contaminants above the soil target cleanup goals and

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date: 06261997
Comments: disposal at the landfill No 2 on base.
Comments Date: 06291989
Comments: Federal Facility Agreement (FFA) between Air Force, USEPA, and DH
Comments Date: 06291989
Comments: S Toxic Substances Control Division was signed.
Comments Date: 06301991
Comments: Removal Action: Soil removal/treatment Building #763.
Comments Date: 07231999
Comments: RA-IRP-2: The Removal Action consisted of consolidating 15 acres
Comments Date: 07231999
Comments: of the original 35 acres unto a 20 acres footprint. Then a four
Comments Date: 07231999
Comments: foot monolithic cover was placed over the consolidated area which
Comments Date: 07231999
Comments: included: a landfill gas collection (LFG) system, extensive soil
Comments Date: 07231999
Comments: gas monitoring probes, groundwater monitoring wells, a flare to
Comments Date: 07231999
Comments: treat gas and condensate and finally was graded and hydro-seeded.
Comments Date: 07231999
Comments: Monitoring wells which were near the landfill were closed. Wastes
Comments Date: 07231999
Comments: deemed incompatible with the landfill closure were excavated and
Comments Date: 07231999
Comments: disposed of off site. These wastes included 16 cubic yards of
Comments Date: 07231999
Comments: hydrocarbon contaminated soils, 5 roll-off bins of 20 cubic yards
Comments Date: 07231999
Comments: full of tires, 16 cubic yards of fuel bladders, and 48 cubic
Comments Date: 07231999
Comments: yards of drilling spoils. The final footprint of the landfill is
Comments Date: 07231999
Comments: 25 acres and is enclosed with a chain link fence.
Comments Date: 07251991
Comments: US Air Force Military Command Base. Contaminants include
Comments Date: 07251991
Comments: fuels, TCE, PCBs, xylenes, Cr, methylene chloride, DCB,
Comments Date: 07251991
Comments: and toluene.
Comments Date: 07291997
Comments: RAP - SIT19: The response action addressed in the Record of
Comments Date: 07291997
Comments: Decision consists of a deed restriction that precludes
Comments Date: 07291997
Comments: access to the soils and prevents uncontrolled releases. This
Comments Date: 07291997
Comments: remedy was considered to be the most cost effective and
Comments Date: 07291997
Comments: protective of human health and the environment. The remedy
Comments Date: 07291997
Comments: is deemed an interim measure and an additional remedy may be
Comments Date: 07291997
Comments: considered when it is found necessary to remove the concrete
Comments Date: 07291997
Comments: apron covering the contaminated soil.
Comments Date: 08121991

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments:	Filed Neg. Dec. with State clearing house in comp. w/ CEQA
Comments Date:	09211994
Comments:	DES - CBAGW -- Central Base Area Groundwater (CBAGW) pump and tre
Comments Date:	09211994
Comments:	at system. The pump and treat system includes a new extraction w
Comments Date:	09211994
Comments:	ell (to supplement the two existing wells), eight injection wells
Comments Date:	09211994
Comments:	, a groundwater treatment plant, and pipelines to transport the w
Comments Date:	09211994
Comments:	ater among the wells and the treatment plant. The groundwater wi
Comments Date:	09211994
Comments:	ll be treated by packed tower air strippers. As mandated in the
Comments Date:	09211994
Comments:	Record of Decision dated November 24, 1993, this system will "mai
Comments Date:	09211994
Comments:	ntain hydraulic control to the extent possible of the plume while
Comments Date:	09211994
Comments:	extracting contaminated groundwater, and reinjecting treated gro
Comments Date:	09211994
Comments:	undwater into the contaminant plume or the clean portion of the a
Comments Date:	09211994
Comments:	quifer." Approximate cost = $700,000; funding = BRAC.
Comments Date:	10071994
Comments:	DES - CBAGW -- MODIFICATION - The design consists of modification
Comments Date:	10071994
Comments:	s to the existent Central Base Area (CBA) pump and treat system t
Comments Date:	10071994
Comments:	o increase its capacity from 200 gallons per minute (gpm) to 400
Comments Date:	10071994
Comments:	gpm. The modifications are: addition of four new extraction well
Comments Date:	10071994
Comments:	s and three new injection wells; replace 4-inch piping with 6-inc
Comments Date:	10071994
Comments:	h piping as required inside the treatment system area; replace ex
Comments Date:	10071994
Comments:	isting centrifugal transfer pumps with larger pumps; operate the
Comments Date:	10071994
Comments:	liquid phase carbon units in a parallel mode; addition of new in-
Comments Date:	10071994
Comments:	line filters; addition of a new in-line sand separator; and insta
Comments Date:	10071994
Comments:	llation of pipeline from the new extraction wells and injection w
Comments Date:	10071994
Comments:	ells to the treatment plant area; install new pipeline from new i
Comments Date:	10071994
Comments:	njection wells and tie-in to the existing injection well pipeline
Comments Date:	10071994
Comments:	. Approximate cost = 336,000; funding = BRAC.
Comments Date:	10171991
Comments:	Modified and refiled Neg. Dec. with State Clearing House as
Comments Date:	10171991
Comments:	a result of comments from the City of Riverside regarding
Comments Date:	10171991
Comments:	the presence of radionuclides in the ground water and the
Comments Date:	10171991
Comments:	possible risk of radon contaminating activated carbon filter

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date: 10301998
Comments: were met. The area was then backfilled with clean fill and grade
Comments Date: 10301998
Comments: d.
Comments Date: 10301998
Comments: RA - AOC70: The Removal Action goal for AOC 70 was to excavate an
Comments Date: 10301998
Comments: d remove soil containing contaminants of concern: PCBs, benzo(a p
Comments Date: 10301998
Comments: yrene, benzo(b)flouranthene, benzo(k)-flouranthene, TPH-diesel an
Comments Date: 10301998
Comments: d TPH-gasoline at depths up to 10 feet. Approximately 1632 cubic
Comments Date: 10301998
Comments: yards of material was excavated, treated and disposed off- site.
Comments Date: 10301998
Comments: Confirmation samples were then taken, analyzed and the determinat
Comments Date: 10301998
Comments: ion was made that the objectives were met. The area was then back
Comments Date: 10301998
Comments: filled with clean fill and graded. RA - IRP10: The Removal Acti
Comments Date: 10301998
Comments: on goal for IRP Site 10 was to excavate and remove soil containin
Comments Date: 10301998
Comments: g contaminants of concern: lead arsenic and chromium at depths up
Comments Date: 10301998
Comments: to three feet or one foot below the ash layer, as this was the z
Comments Date: 10301998
Comments: one of ecological risk. Approx. 224 cubic yards of non-hazardous
Comments Date: 10301998
Comments: material was disposed of at the base landfill, IRP Site 2 and app
Comments Date: 10301998
Comments: roximately 116 cubic yards of potentially hazardous waste were ex
Comments Date: 10301998
Comments: cavated and disposed off site. Confirmation samples were then tak
Comments Date: 10301998
Comments: en, analyzed and the determina- tion was made that the objectives
Comments Date: 11202003
Comments: RAP - SITE 10 (Removal action at Site 10 and 12): Following the f
Comments Date: 11202003
Comments: inalization of Basewide Feasibility Study Report, the AF issued t
Comments Date: 11202003
Comments: his document for conducting soil removal at these sites to accele
Comments Date: 11202003
Comments: rate cleanup actions at the former Norton AFB. Because of the end
Comments Date: 11202003
Comments: angered species, the AF will conduct formal consultation with US
Comments Date: 11202003
Comments: Fish and Wildlife and obtain permits from California Dept. of Fis
Comments Date: 11202003
Comments: h and Game. The detected contamination is within four feet of gr
Comments Date: 11202003
Comments: ound surface, the AF will restrict depth of excavation accordingl
Comments Date: 11202003
Comments: y. Also, because part of Site 10 is now potions of a golf course
Comments Date: 11202003
Comments: , part of the golf course will be closed during the removal actio
Comments Date: 11202003

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments: n. Excavated soil will be profiled and sent to a regulated landf
Comments Date: 11202003
Comments: ill. Once the removal action is complete, no further remedial ac
Comments Date: 11202003
Comments: tions are anticipated at these sites.
Comments Date: 11241993
Comments: RAP CBAOU 11/24/93 Completion of Proposed Plan and Record of Deci
Comments Date: 11241993
Comments: sion for the Central Base Area Operable Unit (CBAOU). The propose
Comments Date: 11241993
Comments: d Plan details the remedies considered and selected to clean grou
Comments Date: 11241993
Comments: ndwater and soil contamination in the CBA OU, and give the public
Comments Date: 11241993
Comments: the opportunity to comment on the proposed remedies. The Record
Comments Date: 11241993
Comments: of Decision explains the basis and purpose of the decision made b
Comments Date: 11241993
Comments: y the Air Force to implement the remedies proposed in the propose
Comments Date: 11241993
Comments: d plan. Volume Treated, Stabilized, or Disposed: N/A Approximat
Comments Date: 11241993
Comments: e cost $60,000.00
Comments Date: 11251991
Comments: A Negative Declaration was filed with the State clearing House on
Comments Date: 11251991
Comments: 10/5/91. A notice if determination was filed with the San Berna
Comments Date: 11251991
Comments: rdino County Clerk for the pump & treat system for the central ba
Comments Date: 11251991
Comments: se area.
Comments Date: 12011992
Comments: Design and construction of a system to extract and treat
Comments Date: 12011992
Comments: contaminated groundwater and reinject groundwater to the
Comments Date: 12011992
Comments: aquifer. GW is pumped from two extraction wells located in
Comments Date: 12011992
Comments: the central base area, treated through an air stripper, and
Comments Date: 12011992
Comments: reinjected to the aquifer. The two extraction wells are ca-
Comments Date: 12011992
Comments: pable of producing 200 gal per minute. Each well is equipped
Comments Date: 12011992
Comments: with a submergible pump and current sensor. The current
Comments Date: 12011992
Comments: sensor is capable of auto shutoff of the pumps when the
Comments Date: 12011992
Comments: water levels in the wells are too low. The TCE contaminated
Comments Date: 12011992
Comments: water is delivered by a double-walled underground pipeline
Comments Date: 12011992
Comments: to an equalization tank which is present to provide
Comments Date: 12011992
Comments: constant feed to top of the air stripper tower.
Comments Date: 12011994
Comments: PEA - OU3 -- DTSC approved the PEA on December 1, 1994. This PEA

NORTON AIR FORCE BASE (Continued) **S101272838**

Comments Date: 12011994
Comments: resulted in the identification of 19 locations with sufficient ev
Comments Date: 12011994
Comments: idence of contamination that warranted more thorough investigatio
Comments Date: 12011994
Comments: n of the extent of contamination. Approximate cost = 1,100,000;
Comments Date: 12011994
Comments: funding = BRAC.
Comments Date: 12071994
Comments: DES - CBA-S -- Design for contaminated soils within the Centra Ba
Comments Date: 12071994
Comments: se Area (CBA). This design describes the engineering design comp
Comments Date: 12071994
Comments: onents of remedial actions at Building 658 and IRP Site 9 located
Comments Date: 12071994
Comments: in the TCE source areas of the CBA-OU. The selected remedies co
Comments Date: 12071994
Comments: nsist of excavation and exsitu vapor extraction for TCE impacted
Comments Date: 12071994
Comments: soils at Building 658 and excavation and off-site stabilization a
Comments Date: 12071994
Comments: nd disposal for TCE and chromium impacted soils from IRP Site 9.
Comments Date: 12071994
Comments: Approximate cost = 300,000; funding = BRAC.
Comments Date: 12291997
Comments: RA - SITE1: A removal action was implemented as a result of an Ac
Comments Date: 12291997
Comments: trion Memorandum completed in March 1996. the removal action was
Comments Date: 12291997
Comments: implemented in two phases between November 1996 and July 1997. A
Comments Date: 12291997
Comments: total of approximately 20,900 tons of soils exceeding cleanup lev
Comments Date: 12291997
Comments: els were excavated and disposed of off- base at an appropriate fa
Comments Date: 12291997
Comments: cility. Approximately 3,800 square feet of material above the cle
Comments Date: 12291997
Comments: anup levels were left in place as they were not extractable durin
Comments Date: 12291997
Comments: g the removal effort. The excavation was subsequently back filled
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CA4570024345
ID Name: BEP DATABASE PCODE
ID Value: P42053
Alternate Name: Norton Air Force Base
Alternate Name: Not reported
Special Programs Code: BRAC1
Special Programs Name: BASE REALIGNMENT & CLOSURE, 1ST ROUND
Special Programs Code: DSMOA
Special Programs Name: DEFENSE MEMORANDUM OF AGREEMENT

DEED:
Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Envirostor ID: 36970004
Area: BASEWIDE

NORTON AIR FORCE BASE (Continued) **S101272838**

Sub Area: STE19
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/31/2007
File Name: Envirostor Land Use Restrictions

Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Envirostor ID: 36970004
Area: BASEWIDE
Sub Area: SAR
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/17/2007
File Name: Envirostor Land Use Restrictions

Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Envirostor ID: 36970004
Area: BASEWIDE
Sub Area: SITE 2
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/20/2007
File Name: Envirostor Land Use Restrictions

Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Envirostor ID: 36970004
Area: BASEWIDE
Sub Area: SITE5
Site Type: FEDERAL SUPERFUND
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/17/2007
File Name: Envirostor Land Use Restrictions

K47 **AAC SUPPLY DEPOT** **CA ENVIROSTOR** **S107735784**
WSW **N/A**
1/2-1 **SAN BERNARDINO, CA**
0.909 mi.
4797 ft. **Site 1 of 3 in cluster K**

Relative: ENVIROSTOR:
Lower Name: AAC SUPPLY DEPOT
Actual: Address: Not reported
1124 ft. City,State,Zip: SAN BERNARDINO, CA
Facility ID: 80000878

AAC SUPPLY DEPOT (Continued) **S107735784**

Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.1
Longitude:	-117.2333
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F999900
Alias Type:	Federal Facility ID
Alias Name:	J09CA7176
Alias Type:	INPR
Alias Name:	80000878
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	08/02/1999
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

K48 WSW 1/2-1 0.914 mi. 4828 ft. | **NORTON COMM FAC** | **CA ENVIROSTOR** | **S107736921** **N/A**

SAN BERNARDINO, CA

Site 2 of 3 in cluster K

Relative: Lower

Actual: 1123 ft.

ENVIROSTOR:

Name:	NORTON COMM FAC
Address:	Not reported
City,State,Zip:	SAN BERNARDINO, CA
Facility ID:	80001185
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	34.10027
Longitude:	-117.2336
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799F688400
Alias Type:	Federal Facility ID
Alias Name:	J09CA2140
Alias Type:	INPR
Alias Name:	80001185
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inventory Project Report (INPR)
Completed Date:	07/02/1992
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

K49 WSW 1/2-1 0.915 mi. 4829 ft. | **NORTON COMMUNICATION FACILITY** | **FUDS** | **1024903849** **N/A**

SAN BERNARDINO, CA

Site 3 of 3 in cluster K

Relative: Lower

Actual: 1123 ft.

FUDS:

EPA Region:	9
Installation ID:	CA99799F688400
Congressional District Number:	31
Name:	NORTON COMMUNICATION FACILITY
FUDS Number:	J09CA2140
City:	SAN BERNARDINO
State:	CA
County:	SAN BERNARDINO
Object ID:	8777
USACE Division:	SPD
USACE District:	Los Angeles District (SPL)
Status:	Properties without projects
Current Owner:	Not reported
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=61975
Eligibility:	Ineligible
Has Projects:	No
NPL Status:	Not on the NPL
Property History:	Not reported
Project Required:	No
Feature Description:	Not reported
Latitude:	34.1002777799999
Longitude:	-117.233611109999

---

50 North 1/2-1 0.926 mi. 4890 ft. | **CYPRESS II ELEMENTARY SCHOOL** | **CA ENVIROSTOR** | **S107736203**
BASELINE/SOUTH ALLEN STREET | **CA SCH** | **N/A**
SAN BERNARDINO, CA 92346

Relative: Higher

Actual: 1179 ft.

ENVIROSTOR:

Name:	CYPRESS II ELEMENTARY SCHOOL
Address:	BASELINE/SOUTH ALLEN STREET
City,State,Zip:	SAN BERNARDINO, CA 92346
Facility ID:	60000047
Status:	Inactive - Withdrawn
Status Date:	06/19/2007
Site Code:	404551
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	10
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	40
Senate:	23
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District

CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Latitude: 34.12088
Longitude: -117.218
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SAN BERNARDINO USD-PRPSD CYPRESS II ES
Alias Type: Alternate Name
Alias Name: 404551
Alias Type: Project Code (Site Code)
Alias Name: 60000047
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/22/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/19/2007
Comments: CRU Memo Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/16/2005
Comments: Approval of phase 1 ESA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/25/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 05/10/2005
Comments: DTSC has issued an Inactive Status letter due to delays by the San Bernardino City district.

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:

CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Name:	CYPRESS II ELEMENTARY SCHOOL
Address:	BASELINE/SOUTH ALLEN STREET
City,State,Zip:	SAN BERNARDINO, CA 92346
Facility ID:	60000047
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404551
Assembly:	40
Senate:	23
Special Program Status:	Not reported
Status:	Inactive - Withdrawn
Status Date:	06/19/2007
Restricted Use:	NO
Funding:	School District
Latitude:	34.12088
Longitude:	-117.218
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SAN BERNARDINO USD-PRPSD CYPRESS II ES
Alias Type:	Alternate Name
Alias Name:	404551
Alias Type:	Project Code (Site Code)
Alias Name:	60000047
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/22/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	06/19/2007
Comments:	CRU Memo Completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/16/2005
Comments:	Approval of phase 1 ESA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

CYPRESS II ELEMENTARY SCHOOL (Continued) **S107736203**

Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/25/2004
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	05/10/2005
Comments:	DTSC has issued an Inactive Status letter due to delays by the San Bernardino City district.

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

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN BERNARDINO	S106162215	NORTON A F B BLDG 754	7TH ST	92410	CA LUST
SAN BERNARDINO	1003878981	SECCOMBE LAKE STATE REC AREA	7TH ST BETW SERRIA & WATERMAN	92410	SEMS-ARCHIVE
SAN BERNARDINO COUNT	S107537516		ALONG SIDE GRAY ST NEAR 3RD ST		CA CDL
SAN BERNARDINO COUNT	1016139697	CIMA ROAD MINE WASTE SITE	1 MIL W OF INTE. 15 OFF CIMA R		SEMS

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: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	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 6 Telephone: 214-655-6659
EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
EPA Region 10 Telephone 206-553-8665	

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: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
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: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 07/26/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
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: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
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: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 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 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 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 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

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: 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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

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 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 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 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

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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
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: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
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: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
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: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
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: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 08/23/2021
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: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
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: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
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: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
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

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: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

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

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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

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: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
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: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
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: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 08/16/2021
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: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
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: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
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: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
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: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
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: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
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: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
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: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
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: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
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: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
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: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

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: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

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: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

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: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
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: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
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: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
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: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/07/2021
Number of Days to Update: 79

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 01/29/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
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: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
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: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

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: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

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: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
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: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/09/2021
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: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
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: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
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: 06/04/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 76

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
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: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
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: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
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: 10/19/2020
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/27/2021
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
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: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/02/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
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: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/16/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
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: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
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: 06/28/2021
Next Scheduled EDR Contact: 10/04/2021
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: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
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: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
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: 12/28/2020
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/22/2021
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
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: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
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: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
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: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
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: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
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: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
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: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
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: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
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: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
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

26840 3RD ST
26840 3RD ST
HIGHLAND, CA 92346

TARGET PROPERTY COORDINATES

Latitude (North):	34.1069 - 34˚ 6' 24.84''
Longitude (West):	117.218606 - 117˚ 13' 6.98''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	479837.1
UTM Y (Meters):	3773835.8
Elevation:	1163 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630631 REDLANDS, 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).

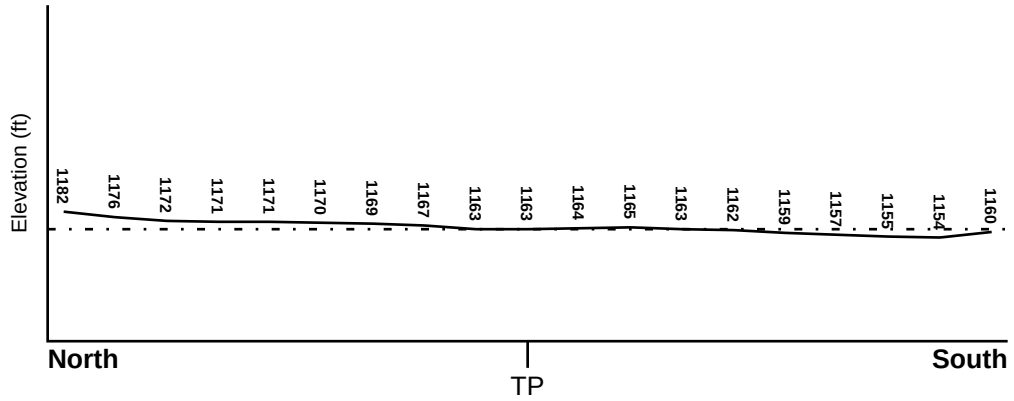
TOPOGRAPHIC INFORMATION

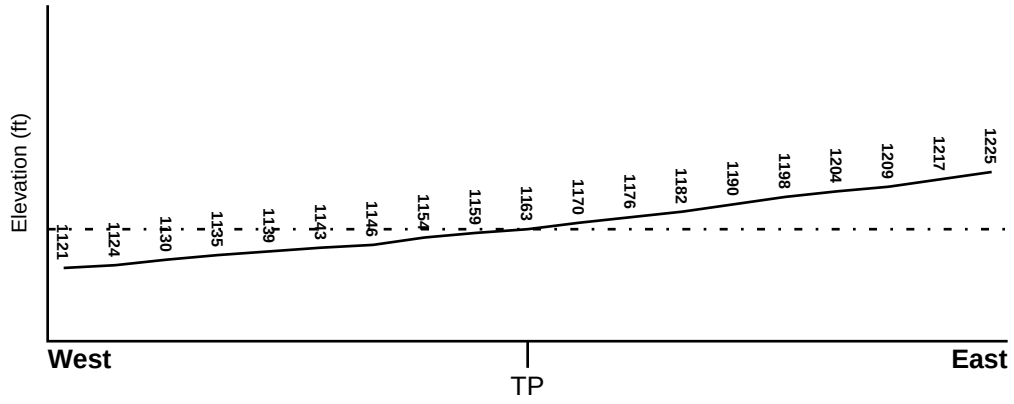
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1163 ft.

0 1/2 1 Miles

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
06071C8702H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8701H	FEMA FIRM Flood data
06071C8703H	FEMA FIRM Flood data
06071C8704H	FEMA FIRM 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
Not Reported		

* ©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

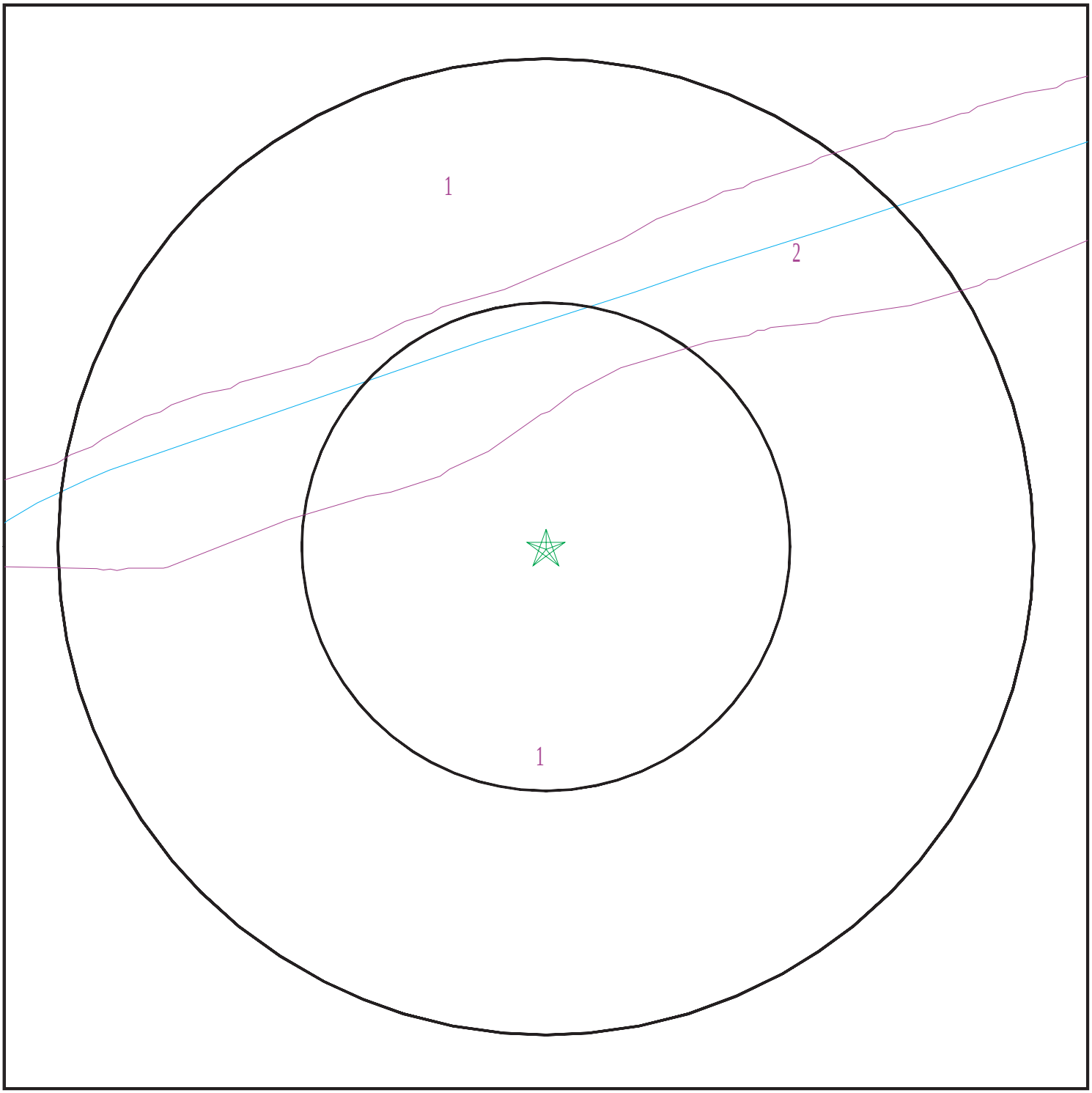
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 6657652.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	26840 3rd St	CLIENT:	Hazard Management Consulting
ADDRESS:	26840 3rd St Highland CA 92346	CONTACT:	Troy Taylor
		INQUIRY #:	6657652.2s
LAT/LONG:	34.1069 / 117.218606	DATE:	September 13, 2021 4:28 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: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively 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	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: FLUVENTS

Soil Surface Texture: gravelly sand

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: Partially hydric

Corrosion Potential - Uncoated Steel: High

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	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	9 inches	29 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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.

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
1	USGS40000141173	0 - 1/8 Mile East
A2	USGS40000141260	1/8 - 1/4 Mile North
A3	USGS40000141261	1/8 - 1/4 Mile NNW
4	USGS40000141259	1/8 - 1/4 Mile NNE
B5	USGS40000141241	1/4 - 1/2 Mile NW
B6	USGS40000141242	1/4 - 1/2 Mile NW
C7	USGS40000141172	1/4 - 1/2 Mile East
8	USGS40000141308	1/4 - 1/2 Mile NNE
C9	USGS40000141197	1/4 - 1/2 Mile East
C10	USGS40000141171	1/4 - 1/2 Mile East
D11	USGS40000141203	1/4 - 1/2 Mile WNW
D12	USGS40000141204	1/4 - 1/2 Mile WNW
D14	USGS40000141174	1/4 - 1/2 Mile West
15	USGS40000141286	1/4 - 1/2 Mile NW
E17	USGS40000141142	1/4 - 1/2 Mile West
F18	USGS40000141215	1/4 - 1/2 Mile ENE
D19	USGS40000141213	1/4 - 1/2 Mile WNW
D20	USGS40000141216	1/4 - 1/2 Mile WNW
22	USGS40000141161	1/4 - 1/2 Mile East
25	USGS40000141312	1/2 - 1 Mile NW
27	USGS40000141317	1/2 - 1 Mile NE
29	USGS40000141344	1/2 - 1 Mile NNW
G30	USGS40000141131	1/2 - 1 Mile West
31	USGS40000141222	1/2 - 1 Mile ENE
H32	USGS40000141065	1/2 - 1 Mile SW
33	USGS40000141313	1/2 - 1 Mile NW
I35	USGS40000141361	1/2 - 1 Mile NNW
36	USGS40000141336	1/2 - 1 Mile NE
H37	USGS40000141057	1/2 - 1 Mile SW
J38	USGS40000141169	1/2 - 1 Mile East
J39	USGS40000141170	1/2 - 1 Mile East
J40	USGS40000141160	1/2 - 1 Mile East
J41	USGS40000141185	1/2 - 1 Mile East
45	USGS40000141325	1/2 - 1 Mile NE
K46	USGS40000141249	1/2 - 1 Mile WNW
K48	USGS40000141271	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I49	USGS40000141388	1/2 - 1 Mile NNW
58	USGS40000141299	1/2 - 1 Mile WNW
M60	USGS40000141202	1/2 - 1 Mile East
N62	USGS40000141321	1/2 - 1 Mile NE
64	USGS40000141379	1/2 - 1 Mile NNE
65	USGS40000141143	1/2 - 1 Mile West
N68	USGS40000141335	1/2 - 1 Mile NE
O69	USGS40000141060	1/2 - 1 Mile ESE
P71	USGS40000141383	1/2 - 1 Mile NNW
R74	USGS40000141217	1/2 - 1 Mile West
S75	USGS40000141330	1/2 - 1 Mile NW
Q77	USGS40000141374	1/2 - 1 Mile NW
78	USGS40000141413	1/2 - 1 Mile North
R81	USGS40000141205	1/2 - 1 Mile West
R82	USGS40000141206	1/2 - 1 Mile West
S84	USGS40000141331	1/2 - 1 Mile NW
P87	USGS40000141389	1/2 - 1 Mile NW
88	USGS40000141421	1/2 - 1 Mile NNE
U90	USGS40000141151	1/2 - 1 Mile West
92	USGS40000140972	1/2 - 1 Mile SSW
93	USGS40000141412	1/2 - 1 Mile NNE
T97	USGS40000141422	1/2 - 1 Mile NNW
T98	USGS40000141423	1/2 - 1 Mile NNW
W100	USGS40000141223	1/2 - 1 Mile West
T103	USGS40000141427	1/2 - 1 Mile NNW
T104	USGS40000141428	1/2 - 1 Mile NNW
106	USGS40000141347	1/2 - 1 Mile NE
108	USGS40000141324	1/2 - 1 Mile ENE
109	USGS40000141450	1/2 - 1 Mile NNW
V110	USGS40000141040	1/2 - 1 Mile ESE
W111	USGS40000141224	1/2 - 1 Mile West
X112	USGS40000141262	1/2 - 1 Mile WNW
X113	USGS40000141263	1/2 - 1 Mile WNW
Y115	USGS40000141186	1/2 - 1 Mile West
Y116	USGS40000141198	1/2 - 1 Mile West
119	USGS40000141488	1/2 - 1 Mile North
X120	USGS40000141264	1/2 - 1 Mile WNW
121	USGS40000141225	1/2 - 1 Mile West
Y123	USGS40000141187	1/2 - 1 Mile West
124	USGS40000141132	1/2 - 1 Mile West
125	USGS40000141088	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

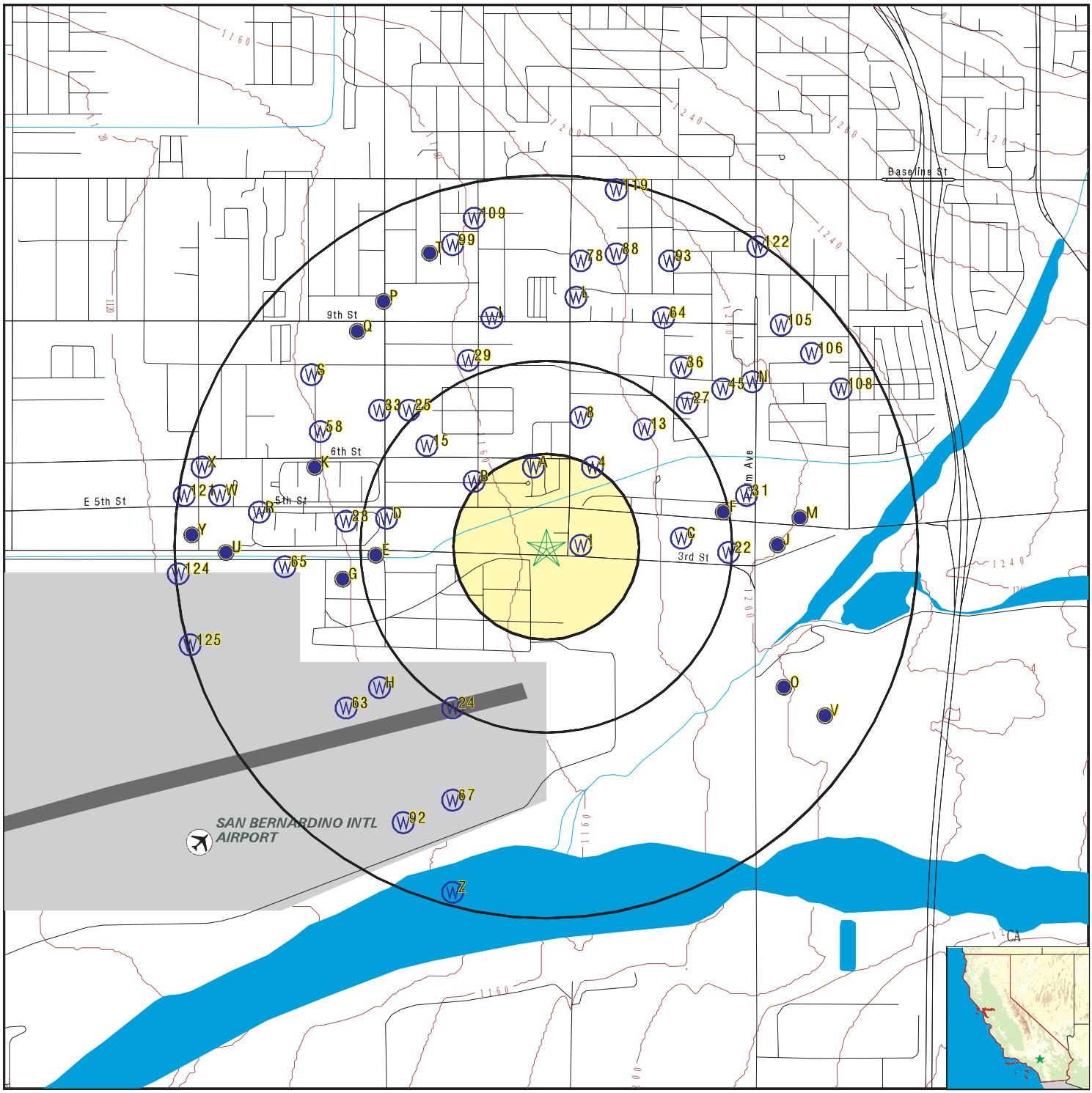
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
13	CADWR0000003800	1/4 - 1/2 Mile NE
E16	CADDW0000007406	1/4 - 1/2 Mile West
E21	CADWR9000006839	1/4 - 1/2 Mile West
F23	CADWR0000036115	1/4 - 1/2 Mile East
24	CADWR0000013479	1/2 - 1 Mile SSW
G26	CADDW0000010240	1/2 - 1 Mile West
28	CADWR0000034942	1/2 - 1 Mile West
G34	809	1/2 - 1 Mile West
J42	CAUSGSN00004484	1/2 - 1 Mile East
J43	CAUSGSN00016638	1/2 - 1 Mile East
J44	CAUSGSN00016039	1/2 - 1 Mile East
J47	CADDW0000010936	1/2 - 1 Mile East
L50	803	1/2 - 1 Mile North
L51	802	1/2 - 1 Mile North
L52	804	1/2 - 1 Mile North
L53	807	1/2 - 1 Mile North
L54	805	1/2 - 1 Mile North
L55	CADDW0000006680	1/2 - 1 Mile North
L56	CADDW0000014380	1/2 - 1 Mile North
L57	CADDW0000010935	1/2 - 1 Mile North
M59	CAUSGSN00011117	1/2 - 1 Mile East
K61	CADDW0000009422	1/2 - 1 Mile WNW
63	CADWR0000011121	1/2 - 1 Mile SW
O66	CADWR9000006810	1/2 - 1 Mile ESE
67	CADWR0000000216	1/2 - 1 Mile SSW
O70	CAUSGSN00005706	1/2 - 1 Mile ESE
O72	CADDW0000006489	1/2 - 1 Mile ESE
Q73	CAUSGSN00018452	1/2 - 1 Mile NW
O76	CADWR0000030199	1/2 - 1 Mile ESE
Q79	CADWR0000034657	1/2 - 1 Mile NW
Q80	CADWR0000018282	1/2 - 1 Mile NW
P83	CADDW0000004370	1/2 - 1 Mile NW
P85	CAUSGS000000252	1/2 - 1 Mile NW
P86	CAUSGSN00008670	1/2 - 1 Mile NW
T89	CADDW0000010401	1/2 - 1 Mile NNW
T91	CADDW0000001678	1/2 - 1 Mile NNW
T94	CAUSGSN00000156	1/2 - 1 Mile NNW
T95	CAUSGSN00006877	1/2 - 1 Mile NNW
V96	CADWR0000035024	1/2 - 1 Mile ESE
99	CADWR0000024907	1/2 - 1 Mile NNW
T101	CAUSGSN00012373	1/2 - 1 Mile NNW
T102	CAUSGSN00017831	1/2 - 1 Mile NNW
105	798	1/2 - 1 Mile NE
U107	808	1/2 - 1 Mile West
Y114	CADWR9000006841	1/2 - 1 Mile West
Z117	CADWR0000007515	1/2 - 1 Mile SSW
Z118	CADWR0000007516	1/2 - 1 Mile SSW
122	797	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 6657652.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:28 am

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **East** **0 - 1/8 Mile** **Higher**	**FED USGS**	**USGS40000141173**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05Q003S	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:	19540101	Well Depth:	163
Well Depth Units:	ft	Well Hole Depth:	163
Well Hole Depth Units:	ft		

A2 **North** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40000141260**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05P003S	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:	19550101	Well Depth:	205
Well Depth Units:	ft	Well Hole Depth:	208
Well Hole Depth Units:	ft		

A3 **NNW** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40000141261**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05P001S	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:	19510101	Well Depth:	228
Well Depth Units:	ft	Well Hole Depth:	228
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
4 **NNE** **1/8 - 1/4 Mile** **Higher**	**FED USGS**	**USGS40000141259**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05Q006S	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:	19520101	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

B5 **NW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141241**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N001S	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:	19500101	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	165
Well Hole Depth Units:	ft		

B6 **NW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141242**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N004S	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:	19390101	Well Depth:	88
Well Depth Units:	ft	Well Hole Depth:	96
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
C7 **East** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141172**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R003S	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:	19500101	Well Depth:	154
Well Depth Units:	ft	Well Hole Depth:	154
Well Hole Depth Units:	ft		

8 **NNE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141308**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05K001S	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:	19520101	Well Depth:	182
Well Depth Units:	ft	Well Hole Depth:	200
Well Hole Depth Units:	ft		

C9 **East** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141197**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R005S	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:	19510101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	396
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
C10 **East** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141171**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R002S	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:	19510101	Well Depth:	176
Well Depth Units:	ft	Well Hole Depth:	176
Well Hole Depth Units:	ft		

D11 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141203**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N070S	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:	19460101	Well Depth:	110
Well Depth Units:	ft	Well Hole Depth:	130
Well Hole Depth Units:	ft		

D12 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141204**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N008S	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:	19500101	Well Depth:	118
Well Depth Units:	ft	Well Hole Depth:	133
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
13 **NE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR0000003800**

D14 **West** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141174**	

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05N006S	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:	19510101	Well Depth:	96
Well Depth Units:	ft	Well Hole Depth:	105
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	4	Level reading date:	1988-11-23
Feet below surface:	87.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1988-06-30	Feet below surface:	76.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-12-09	Feet below surface:	74.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-07-15	Feet below surface:	65.90
Feet to sea level:	Not Reported	Note:	Not Reported

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15 **NW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141286**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05M003S	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:	19240101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	101
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
E16 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADDW0000007406**

E17 **West** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141142**	

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07A003S	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:	98
Well Depth Units:	ft	Well Hole Depth:	104
Well Hole Depth Units:	ft		

F18 **ENE** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141215**	

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R006S	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:	19500101	Well Depth:	104
Well Depth Units:	ft	Well Hole Depth:	114
Well Hole Depth Units:	ft		

D19 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141213**	

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06R001S	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:	19500101	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	165
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
D20 **WNW** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000141216**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06R002S	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:	19260101	Well Depth:	106
Well Depth Units:	ft	Well Hole Depth:	113
Well Hole Depth Units:	ft		

E21 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR9000006839**

State Well #:	01S03W05N006S	Station ID:	6583
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

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22 **East** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000141161**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R007S	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:	19550101	Well Depth:	164
Well Depth Units:	ft	Well Hole Depth:	164
Well Hole Depth Units:	ft		

F23 **East** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR0000036115**

Map ID Direction Distance Elevation	Database	EDR ID Number
24 **SSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000013479**

25
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141312**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05M002S	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:	19210101	Well Depth:	78
Well Depth Units:	ft	Well Hole Depth:	83
Well Hole Depth Units:	ft		

G26
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000010240**

27
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141317**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J003S	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:	19530101	Well Depth:	221
Well Depth Units:	ft	Well Hole Depth:	221
Well Hole Depth Units:	ft		

28
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000034942**

Map ID Direction Distance Elevation	Database	EDR ID Number
29 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141344**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05E002S	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:	105
Well Hole Depth Units:	ft		

G30 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141131**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07A001S	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:	19310101	Well Depth:	102
Well Depth Units:	ft	Well Hole Depth:	104
Well Hole Depth Units:	ft		

31 **ENE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141222**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05R001S	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:	200
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
H32 **SW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141065**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W08E001S	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:	19430101	Well Depth:	126
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

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33 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141313**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06J003S	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:	374
Well Hole Depth Units:	ft		

G34 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**809**

Seq:	809	Prim sta c:	01S/03W-07A06 S
Frds no:	3610704004	County:	36
District:	13	User id:	TAN
System no:	3610704	Water type:	G
Source nam:	WELL 11	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340620.0	Longitude:	1171340.0
Precision:	3	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:	3610704	System nam:	Inland Valley Development Agency-Norton
Hqname:	Not Reported	Address:	201 N. "E" ST., SUITE 203
City:	SAN BERNARDINO	State:	CA
Zip:	92401	Zip ext:	5300
Pop serv:	1500	Connection:	1001

Area serve: NORTON AIR FORCE BASE

I35
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000141361**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05F007S	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:	19460101	Well Depth:	89
Well Depth Units:	ft	Well Hole Depth:	106
Well Hole Depth Units:	ft		

36
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141336**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H002S	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:	55
Well Depth Units:	ft	Well Hole Depth:	55
Well Hole Depth Units:	ft		

H37
SW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141057**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07J002S	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:	430
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
J38 **East** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141169**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	HOLE-26 LYSIMETER AT 60		
Type:	Well: Test hole not completed as a 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		

J39 **East** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141170**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	HOLE-26 LYSIMETER AT 90		
Type:	Well: Test hole not completed as a 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		

J40 **East** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141160**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N003S	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:	835
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
J41 **East** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141185**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N000S	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:	750
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

J42 **East** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAUSGSN00004484**

J43 **East** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAUSGSN00016638**

J44 **East** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAUSGSN00016039**

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45 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141325**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J005S	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:	19540101	Well Depth:	200
Well Depth Units:	ft	Well Hole Depth:	214
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
K46 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141249**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q004S	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:	19470101	Well Depth:	74
Well Depth Units:	ft	Well Hole Depth:	108
Well Hole Depth Units:	ft		

J47 **East** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADDW0000010936**

K48 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141271**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q009S	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:	80
Well Depth Units:	ft	Well Hole Depth:	85
Well Hole Depth Units:	ft		

I49 **NNW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141388**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05F006S	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:	19360101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	70
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
L50 **North** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**803**

Seq:	803	Prim sta c:	01S/03W-05D04 S
Frds no:	3610064006	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
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:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

L51 **North** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**802**

Seq:	802	Prim sta c:	01S/03W-05D01 S
Frds no:	3610064005	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
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:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

L52 **North** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**804**

Seq:	804	Prim sta c:	01S/03W-05D07 S
Frds no:	3610064008	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	CULL WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY

Latitude:	340700.0	Longitude:	1171300.0
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:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

L53
North
1/2 - 1 Mile
Higher

CA WELLS 807

Seq:	807	Prim sta c:	01S/03W-06H04 S
Frds no:	3610064016	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G
Source nam:	WELL 009A - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
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:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		
Sample date:	22-FEB-18	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-FEB-18	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-FEB-18	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	3.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	24-JAN-18	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	1.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	1.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-18	Finding:	16.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-DEC-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-17	Finding:	3.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-DEC-17	Finding:	17.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-OCT-17	Finding:	5.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-AUG-17	Finding:	3.1
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	1.9
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-AUG-17	Finding:	15.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	2.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JUL-17	Finding:	23.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JUL-17	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-JUN-17	Finding:	6.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-APR-17	Finding:	6.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JAN-17	Finding:	3.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-OCT-16	Finding:	4.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-16	Finding:	9.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	54.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	16.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	27.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-AUG-16	Finding:	0.23
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-AUG-16	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	23-AUG-16	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-16	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JUL-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	150.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	5.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	150.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	47.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	8.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	2.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-JUN-16	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	07-JUN-16	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-JUN-16	Finding:	5.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-APR-16	Finding:	5.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-JAN-16	Finding:	4.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-OCT-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-AUG-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JUL-15	Finding:	24.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-APR-15	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JAN-15	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-AUG-14	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	52.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	19.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	8.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	19.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	26-AUG-14	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	26-AUG-14	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	26-AUG-14	Finding:	29.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-JUL-14	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-JUL-14	Finding:	1.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	15-JUL-14	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	15-JUL-14	Finding:	1.7
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-APR-14	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JAN-14	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-OCT-13	Finding:	22.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-JUL-13	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-JUN-13	Finding:	5100.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUN-13	Finding:	11.41
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	0.21
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	25-JUN-13	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	4.7
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	25-JUN-13	Finding:	0.22
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-JUN-13	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-JUN-13	Finding:	18.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	18.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	8.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	51.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	160.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	410.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	25-JUN-13	Finding:	18.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	25-JUN-13	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-APR-13	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-JUN-12	Finding:	20.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	9.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	56.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUN-12	Finding:	30.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUN-12	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-JAN-12	Finding:	23.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

L54
North
1/2 - 1 Mile
Higher

CA WELLS 805

Seq:	805	Prim sta c:	01S/03W-05D08 S
Frds no:	3610064007	County:	36
District:	13	User id:	TAN
System no:	3610064	Water type:	G

Source nam:	CULL WELL 03 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1171300.0
Precision:	8	Status:	IR
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:	3610064	System nam:	East Valley Wd
Hqname:	Not Reported	Address:	PO BOX 3427
City:	SAN BERNARDINO	State:	CA
Zip:	92413	Zip ext:	Not Reported
Pop serv:	55000	Connection:	18303
Area serve:	SAN BERNARDINO VIC		

L55
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000006680**

L56
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000014380**

L57
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000010935**

58
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141299**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06J006S	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:	19510101	Well Depth:	148
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

M59
East
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00011117**

Map ID Direction Distance Elevation	Database	EDR ID Number
M60 **East** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141202**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04N001S	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:	19540101	Well Depth:	245
Well Depth Units:	ft	Well Hole Depth:	246
Well Hole Depth Units:	ft		

K61 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000009422**

N62 **NE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141321**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05J001S	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:	19090101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	186
Well Hole Depth Units:	ft		

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63 **SW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000011121**

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64 **NNE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141379**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H003S	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:	19000101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	130
Well Hole Depth Units:	ft		

65
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141143**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07B002S	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:	97
Well Hole Depth Units:	ft		

O66
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000006810**

State Well #:	01S03W09E002S	Station ID:	6584
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

67
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000000216**

N68
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141335**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05H001S	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:	19490101	Well Depth:	190
Well Depth Units:	ft	Well Hole Depth:	196
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
O69 **ESE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141060**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W09E002S	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:	19540908	Well Depth:	401
Well Depth Units:	ft	Well Hole Depth:	401
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	249	Level reading date:	2004-10-22
Feet below surface:	199.28	Feet to sea level:	Not Reported
Note:	The site had been pumped recently.		
Level reading date:	2004-04-20	Feet below surface:	187.41
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2004-04-20	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2003-10-22	Feet below surface:	187.28
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2003-04-23	Feet below surface:	176.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-29	Feet below surface:	176.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-28	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2002-04-08	Feet below surface:	161.73
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2001-10-23	Feet below surface:	158.00
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	2001-04-18	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	2000-10-23	Feet below surface:	145.34
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1999-10-18	Feet below surface:	127.29
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1999-04-14	Feet below surface:	114.38
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1998-10-19	Feet below surface:	116.09
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1998-04-14	Feet below surface:	119.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-10-27	Feet below surface:	138.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-04-14	Feet below surface:	127.03
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1996-10-07	Feet below surface:	136.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-22	Feet below surface:	122.14
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-10-24	Feet below surface:	131.68
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1995-04-19	Feet below surface:	123.63
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1994-10-26	Feet below surface:	151.77
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1994-04-20	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1993-10-19	Feet below surface:	143.81
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1993-04-12	Feet below surface:	135.92
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1992-10-31	Feet below surface:	164.14
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1992-10-29	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1992-06-12	Feet below surface:	154.34
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1991-11-27	Feet below surface:	159.95
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1991-06-17	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1991-04-24	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-12-03	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1990-10-30	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1990-06-25	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-11-28	Feet below surface:	130.21
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1989-10-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1989-09-21	Feet below surface:	127.20
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1989-04-26	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-11-23	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-10-13	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1988-06-30	Feet below surface:	104.75
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1987-12-08	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1987-06-16	Feet below surface:	88.77
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1987-04-01	Feet below surface:	106.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-01-02	Feet below surface:	105.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-10-01	Feet below surface:	98.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-01	Feet below surface:	103.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-08-01	Feet below surface:	106.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-07-01	Feet below surface:	103.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-06-19	Feet below surface:	76.86
Feet to sea level:	Not Reported	Note:	The site had been pumped recently.
Level reading date:	1986-06-01	Feet below surface:	98.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-05-01	Feet below surface:	74.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-01	Feet below surface:	72.4

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-01	Feet below surface:	95.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-02-01	Feet below surface:	70.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-14	Feet below surface:	71.74
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1986-01-02	Feet below surface:	96.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-06	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-01	Feet below surface:	73.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-10-25	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-10-01	Feet below surface:	87.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-09-30	Feet below surface:	87.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-09-01	Feet below surface:	87.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-08-30	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-08-01	Feet below surface:	91.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-07-30	Feet below surface:	89.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-07-01	Feet below surface:	89.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-25	Feet below surface:	83.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-06-01	Feet below surface:	83.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-30	Feet below surface:	84.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-01	Feet below surface:	84.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-04-22	Feet below surface:	82.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1985-03-22	Feet below surface:	71.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-02-26	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-12-20	Feet below surface:	67.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-11-27	Feet below surface:	70.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-10-23	Feet below surface:	72.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-09-13	Feet below surface:	83.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-08-27	Feet below surface:	70.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-07-11	Feet below surface:	71.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1984-06-14	Feet below surface:	59.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-19	Feet below surface:	56.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-22	Feet below surface:	56.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-02-21	Feet below surface:	56.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-01-23	Feet below surface:	55.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-27	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1983-11-30	Feet below surface:	79.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1983-10-31	Feet below surface:	51.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-18	Feet below surface:	92.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-10-16	Feet below surface:	97.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-18	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-13	Feet below surface:	93.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-23	Feet below surface:	91.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-11	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-09-18	Feet below surface:	91.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-08-14	Feet below surface:	117.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-07-23	Feet below surface:	118.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-06-13	Feet below surface:	115.3
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-05-15	Feet below surface:	88.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-04-16	Feet below surface:	89.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-03-14	Feet below surface:	89.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1980-01-18	Feet below surface:	128.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-12-15	Feet below surface:	135.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-11-19	Feet below surface:	139.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-10-11	Feet below surface:	139.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-09-13	Feet below surface:	137.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-08-09	Feet below surface:	135.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-07-13	Feet below surface:	140.3
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-06-13	Feet below surface:	151.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-05-18	Feet below surface:	149.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-04-12	Feet below surface:	145.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-03-15	Feet below surface:	148.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-02-20	Feet below surface:	149.7
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1979-01-18	Feet below surface:	152.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-12-14	Feet below surface:	151.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1978-11-16	Feet below surface:	157.1
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-10-12	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-09-14	Feet below surface:	154.4
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1978-08-11	Feet below surface:	152.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-07-07	Feet below surface:	182.6
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-06-08	Feet below surface:	189.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-05-11	Feet below surface:	183.2
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-04-14	Feet below surface:	165.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-03-10	Feet below surface:	182.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-02-10	Feet below surface:	182.0
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1977-01-19	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-17	Feet below surface:	187.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1976-11-19	Feet below surface:	185.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-16	Feet below surface:	165.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-14	Feet below surface:	164.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-28	Feet below surface:	163.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-20	Feet below surface:	163.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-15	Feet below surface:	163.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-05	Feet below surface:	162.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-29	Feet below surface:	163.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-23	Feet below surface:	162.4
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-04-16	Feet below surface:	162.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-10	Feet below surface:	162.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-27	Feet below surface:	162.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-20	Feet below surface:	162.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-13	Feet below surface:	162.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-02-14	Feet below surface:	169.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-17	Feet below surface:	164.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-20	Feet below surface:	165.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-01-09	Feet below surface:	155.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-01-23	Feet below surface:	144.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-11-27	Feet below surface:	152.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-10-11	Feet below surface:	148.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-07-30	Feet below surface:	145.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-06-17	Feet below surface:	141.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-05-16	Feet below surface:	139.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-25	Feet below surface:	137.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-03-24	Feet below surface:	159.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1970-02-14	Feet below surface:	139.1
Feet to sea level:	Not Reported		
Note:	Other conditions existed that would affect the measured water level.		
Level reading date:	1969-08-12	Feet below surface:	129.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-07-02	Feet below surface:	121.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-06-16	Feet below surface:	146.7

Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1969-04-26	Feet below surface:	124.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-04-11	Feet below surface:	155.8
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1969-04-01	Feet below surface:	146.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-06	Feet below surface:	190.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-29	Feet below surface:	196.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-21	Feet below surface:	192.5
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1968-07-26	Feet below surface:	190.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-06-19	Feet below surface:	202.7
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1967-07-27	Feet below surface:	199.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-02	Feet below surface:	207.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-05-01	Feet below surface:	217.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-09-29	Feet below surface:	216.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-08-03	Feet below surface:	213.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-06-28	Feet below surface:	211.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-05-14	Feet below surface:	208.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-02-24	Feet below surface:	228.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-12-27	Feet below surface:	231.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-11-29	Feet below surface:	214.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-10-27	Feet below surface:	231.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-08-24	Feet below surface:	220.0
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1965-07-19	Feet below surface:	219.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-06-01	Feet below surface:	219.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-05-02	Feet below surface:	209.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-03-22	Feet below surface:	209.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-24	Feet below surface:	225.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-01-27	Feet below surface:	209.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-11-20	Feet below surface:	212.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-10-28	Feet below surface:	210.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-09-24	Feet below surface:	208.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-08-17	Feet below surface:	206.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-06-27	Feet below surface:	192.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-05-27	Feet below surface:	200.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-04-06	Feet below surface:	199.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1964-03-27	Feet below surface:	199.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-09-25	Feet below surface:	194.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-08-26	Feet below surface:	195.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-07-30	Feet below surface:	189.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-06-26	Feet below surface:	188.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-05-29	Feet below surface:	188.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-04-29	Feet below surface:	185.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-19	Feet below surface:	192.2
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1963-02-28	Feet below surface:	189.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-01-28	Feet below surface:	183.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-10-26	Feet below surface:	183.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-09-08	Feet below surface:	179.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-07-25	Feet below surface:	177.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-06-28	Feet below surface:	178.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-11-02	Feet below surface:	171.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-28	Feet below surface:	169.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-08-10	Feet below surface:	172.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-07-13	Feet below surface:	160.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-06-16	Feet below surface:	160.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-05-23	Feet below surface:	159.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-04-17	Feet below surface:	157.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-09	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-17	Feet below surface:	153.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-01-27	Feet below surface:	153.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-30	Feet below surface:	155.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-07-05	Feet below surface:	154.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-24	Feet below surface:	129.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-01-13	Feet below surface:	141.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-07	Feet below surface:	155.1
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1959-09-17	Feet below surface:	147.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-08-05	Feet below surface:	137.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-06-11	Feet below surface:	135.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-05-14	Feet below surface:	130.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-04-16	Feet below surface:	130.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-13	Feet below surface:	129.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-28	Feet below surface:	125.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-11-14	Feet below surface:	135.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-10-08	Feet below surface:	121.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-09-10	Feet below surface:	110.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-08-07	Feet below surface:	107.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-27	Feet below surface:	131.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-10-30	Feet below surface:	131.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-09-28	Feet below surface:	131.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-08-28	Feet below surface:	131.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-07-18	Feet below surface:	130.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-06-06	Feet below surface:	129.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-05-03	Feet below surface:	128.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-03-27	Feet below surface:	127.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-02-24	Feet below surface:	128.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-16	Feet below surface:	130.3
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1955-12-03	Feet below surface:	126.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-11-07	Feet below surface:	133.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-10-03	Feet below surface:	131.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-09-06	Feet below surface:	129.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-08-02	Feet below surface:	126.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-07-05	Feet below surface:	138.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-06-06	Feet below surface:	128.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-05-02	Feet below surface:	113.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1955-03-28	Feet below surface:	116.9
Feet to sea level:	Not Reported	Note:	Not Reported

O70
ESE
1/2 - 1 Mile
Higher

CA WELLS **CAUSGSN00005706**

P71
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141383**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05E001S	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:	121
Well Hole Depth Units:	ft		

O72
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000006489**

Map ID Direction Distance Elevation	Database	EDR ID Number
Q73 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAUSGSN00018452**

R74
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141217**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q001S	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:	228
Well Depth Units:	ft	Well Hole Depth:	235
Well Hole Depth Units:	ft		

S75
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141330**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06J002S	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:	19330101	Well Depth:	138
Well Depth Units:	ft	Well Hole Depth:	138
Well Hole Depth Units:	ft		

O76
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000030199**

Q77
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141374**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07A005S	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:	733
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

78
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000141413**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B001S	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:	19300101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	123
Well Hole Depth Units:	ft		

Q79
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000034657**

Q80
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000018282**

R81
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141205**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q005S	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:	75
Well Depth Units:	ft	Well Hole Depth:	75
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
R82 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141206**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q007S	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:	19480101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	82
Well Hole Depth Units:	ft		

P83 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000004370**

S84 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141331**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06J001S	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:	19290101	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	50
Well Hole Depth Units:	ft		

P85 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAUSGS000000252**

P86 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAUSGSN00008670**

Map ID Direction Distance Elevation	Database	EDR ID Number
P87 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141389**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06H004S	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:	1955	Well Depth:	421
Well Depth Units:	ft	Well Hole Depth:	421
Well Hole Depth Units:	ft		

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88 **NNE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000141421**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B006S	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:	19530101	Well Depth:	180
Well Depth Units:	ft	Well Hole Depth:	194
Well Hole Depth Units:	ft		

T89 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000010401**

U90 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141151**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07B001S	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:	19250101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	97
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
T91 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADDW0000001678**

92
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000140972**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W08M001S	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:	19430101	Well Depth:	148
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

93
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141412**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05A001S	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:	167
Well Hole Depth Units:	ft		

T94
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00000156**

T95
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00006877**

Map ID Direction Distance Elevation	Database	EDR ID Number
V96 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR0000035024**

T97
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141422**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D004S	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:	19540101	Well Depth:	256
Well Depth Units:	ft	Well Hole Depth:	285
Well Hole Depth Units:	ft		

T98
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141423**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D005S	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		

99
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000024907**

W100
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141223**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q008S	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:	19490101	Well Depth:	75
Well Depth Units:	ft	Well Hole Depth:	80
Well Hole Depth Units:	ft		

T101
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00012373**

T102
NNW
1/2 - 1 Mile
Lower

CA WELLS **CAUSGSN00017831**

T103
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141427**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D001S	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:	19110101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	290
Well Hole Depth Units:	ft		

T104
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141428**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D000S	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
105 **NE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**798**

Seq:	798	Prim sta c:	01S/03W-04E02 S
Frds no:	3601051001	County:	36
District:	66	User id:	36C
System no:	3601051	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340656.0	Longitude:	1171224.0
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:	3601051	System nam:	Sunwest Maerials (Alabama System)
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	25	Connection:	1
Area serve:	Not Reported		

Sample date:	12-MAR-18	Finding:	60.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	12-MAR-18	Finding:	2.3
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	44.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	12-MAR-18	Finding:	5.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	3.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	23-JAN-18	Finding:	54.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	23-JAN-18	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	23-JAN-18	Finding:	3.
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	23-JAN-18	Finding:	5.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JAN-18	Finding:	49.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-JAN-18	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-DEC-17	Finding:	42.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	16-DEC-17	Finding:	2.4
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	16-DEC-17	Finding:	44.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	16-DEC-17	Finding:	5.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	38.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	08-NOV-17	Finding:	4.9
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	45.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-NOV-17	Finding:	2.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	1.9
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-NOV-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.45
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.7
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	02-OCT-17	Finding:	0.61
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	40.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	06-SEP-17	Finding:	5.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	48.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	06-SEP-17	Finding:	2.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-17	Finding:	2.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-17	Finding:	40.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-JUN-17	Finding:	0.89
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JUN-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAR-17	Finding:	32.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-MAR-17	Finding:	4.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-17	Finding:	37.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAR-17	Finding:	2.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	13-MAR-17	Finding:	2.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAR-17	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	4.65
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-OCT-16	Finding:	51.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-OCT-16	Finding:	1.07
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	29-AUG-16	Finding:	3.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-JUL-15	Finding:	3.03
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	14.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-JUL-15	Finding:	2.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-JUL-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	2.65
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	19.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-APR-15	Finding:	2.75
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-APR-15	Finding:	0.86
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	12-JAN-15	Finding:	21.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-JAN-15	Finding:	2.73
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	0.908
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-JAN-15	Finding:	2.75
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	1.02
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	4.32
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	33.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-OCT-14	Finding:	2.72
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-OCT-14	Finding:	0.481
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	3.03
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	30.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-NOV-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	1.02
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-NOV-13	Finding:	3.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-AUG-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	3.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	30.3
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-AUG-13	Finding:	3.38
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	12-AUG-13	Finding:	1.17
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	2.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	23.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-MAY-13	Finding:	2.56
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-MAY-13	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-APR-13	Finding:	2.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	2.81
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-APR-13	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JAN-13	Finding:	1.98
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-JAN-13	Finding:	30.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	31-JAN-13	Finding:	31.
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	31-JAN-13	Finding:	3.12
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

Dlr: 0.

106
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141347**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04E001S	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:	19270101	Well Depth:	179
Well Depth Units:	ft	Well Hole Depth:	182
Well Hole Depth Units:	ft		

U107
West
1/2 - 1 Mile
Lower

CA WELLS **808**

Seq:	808	Prim sta c:	01S/03W-06K02 S
Frds no:	3600147002	County:	36
District:	66	User id:	36C
System no:	3600147	Water type:	G
Source nam:	WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340625.0	Longitude:	1171400.0
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:	3600147	System nam:	Lankershim Mwc
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

108
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141324**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W04M001S	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:	170

Well Hole Depth Units:	ft

109
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141450**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05D003S	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:	19310101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	253
Well Hole Depth Units:	ft		

V110
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000141040**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W09E001S	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:	19420101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	100
Well Hole Depth Units:	ft		

W111
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141224**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q006S	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:	19480101	Well Depth:	83
Well Depth Units:	ft	Well Hole Depth:	100
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
X112 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141262**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q002S	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:	19430101	Well Depth:	119
Well Depth Units:	ft	Well Hole Depth:	123
Well Hole Depth Units:	ft		

X113 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141263**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06Q003S	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:	19420101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	47
Well Hole Depth Units:	ft		

Y114 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000006841**

State Well #:	01S03W06P006S	Station ID:	25823
Well Name:	Not Reported	Basin Name:	San Bernardino
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Y115 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000141186**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06P006S	Type:	Well
Description:	original depth 194 feet.	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:	19560101	Well Depth:	165
Well Depth Units:	ft	Well Hole Depth:	200
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	8	Level reading date:	2004-10-22
Feet below surface:	150.71	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2004-04-21	Feet below surface:	144.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-10-22	Feet below surface:	140.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2003-04-21	Feet below surface:	135.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-10-29	Feet below surface:	130.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-04-08	Feet below surface:	122.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-10-23	Feet below surface:	118.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-04-19	Feet below surface:	112.54
Feet to sea level:	Not Reported	Note:	Not Reported

Y116
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141198**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06P008S	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:	19390101	Well Depth:	88
Well Depth Units:	ft	Well Hole Depth:	96
Well Hole Depth Units:	ft		

Z117
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000007515**

Map ID Direction Distance Elevation	Database	EDR ID Number
Z118 **SSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR0000007516**

119
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000141488**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W05B002S	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:	19110101	Well Depth:	148
Well Depth Units:	ft	Well Hole Depth:	148
Well Hole Depth Units:	ft		

X120
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141264**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06P011S	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:	19520101	Well Depth:	73
Well Depth Units:	ft	Well Hole Depth:	76
Well Hole Depth Units:	ft		

121
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141225**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06P012S	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:	19490101	Well Depth:	85
Well Depth Units:	ft	Well Hole Depth:	88
Well Hole Depth Units:	ft		

Map ID Direction Distance Elevation	Database	EDR ID Number
122 **NE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**797**

Seq:	797	Prim sta c:	01S/03W-04D03 S
Frds no:	3601060001	County:	36
District:	66	User id:	36C
System no:	3601060	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340707.0	Longitude:	1171228.0
Precision:	2	Status:	AR
Comment 1:	8353 N. ALABAMA ST.	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:	3601060	System nam:	Robertsons Redi Mix
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

Sample date:	18-JUL-17	Finding:	3.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	17.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	22.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	18-JUL-17	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	7.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	5.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	18-JUL-17	Finding:	260.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	18-JUL-17	Finding:	80.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	15.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	18-JUL-17	Finding:	600.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	18-JUL-17	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	6.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-MAY-17	Finding:	71.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	30.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	64.9
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	23-MAY-17	Finding:	5.31
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	67.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	23-MAY-17	Finding:	5.94
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	1.26
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	570.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported

Dlr:	0.		
Sample date:	23-MAY-17	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-MAY-17	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	1.52
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	4.08
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	44.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-MAY-17	Finding:	5.54
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-MAY-17	Finding:	66.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	09-MAY-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	7.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-APR-17	Finding:	30.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	8.8e-002
Chemical:	PHOSPHATE, ORTHO	Report units:	MG/L
Dlr:	0.		
Sample date:	06-APR-17	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-APR-17	Finding:	60.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	28-FEB-17	Finding:	93.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-FEB-17	Finding:	52.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	28-FEB-17	Finding:	5.3
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	1.41
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-FEB-17	Finding:	6.31
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	1.17
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	4.43
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	47.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-DEC-16	Finding:	4.79
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-DEC-16	Finding:	37.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	08-DEC-16	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-DEC-16	Finding:	3.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-16	Finding:	45.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	22-JUL-16	Finding:	48.3
Chemical:	GROSS ALPHA	Report units:	PCI/L

Dlr:	3.		
Sample date:	22-JUL-16	Finding:	4.48
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	42.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-JUL-16	Finding:	4.06
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-JUL-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	20-JUN-16	Finding:	3.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	28-APR-16	Finding:	4.86
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	1.05
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	57.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	28-APR-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	3.29
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	28-APR-16	Finding:	35.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JAN-16	Finding:	1.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-16	Finding:	0.481
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-JAN-16	Finding:	3.29
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	25-JAN-16	Finding:	21.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-JAN-16	Finding:	4.11
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	2.61
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	1.98
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	0.897
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-OCT-15	Finding:	8.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-15	Finding:	1.08
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-15	Finding:	1.66
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-15	Finding:	8.37
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	14-SEP-15	Finding:	1.97
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	14-SEP-15	Finding:	5.44
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-SEP-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	0.977
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	27.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L

Dlr:	1.		
Sample date:	18-MAR-15	Finding:	2.91
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-MAR-15	Finding:	1.2
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-MAR-15	Finding:	3.26
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	2.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.528
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.969
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JUN-14	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	3.51
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	28.1
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	24-JAN-14	Finding:	3.4
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	1.06
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-JAN-14	Finding:	0.401
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-OCT-13	Finding:	20.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JAN-13	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-OCT-12	Finding:	3.58
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	12-OCT-12	Finding:	40.54
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	12-OCT-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	3.58
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-12	Finding:	41.6
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-APR-12	Finding:	25.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	25-APR-12	Finding:	2.89
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	25-APR-12	Finding:	1.94
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Y123
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141187**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W06P016S	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:	19560101	Well Depth:	142
Well Depth Units:	ft	Well Hole Depth:	178
Well Hole Depth Units:	ft		

124
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000141132**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07C002S	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:	402

Well Depth Units:	ft	Well Hole Depth:	530
Well Hole Depth Units:	ft		

125
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000141088**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S003W07C003S	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:	19310101	Well Depth:	107
Well Depth Units:	ft	Well Hole Depth:	107
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92346	17	0

Federal EPA Radon Zone for SAN BERNARDINO 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 Zip Code: 92346

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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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26840 3rd St
26840 3rd St
Highland, CA 92346

Inquiry Number: 6657652.5
September 15, 2021

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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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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Data by infoUSA®

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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
1986	☑	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1976	☑	☑	Haines Criss-Cross Directory
1971	☑	☑	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

26840 3rd St
Highland, CA 92346

Year	*CD Image*	*Source*
3RD ST		
2017	pg A1	EDR Digital Archive
2014	pg A12	EDR Digital Archive
2010	pg A22	EDR Digital Archive
2005	pg A31	EDR Digital Archive
2000	pg A40	EDR Digital Archive
1995	pg A45	EDR Digital Archive
1992	pg A50	EDR Digital Archive
1986	pg A53	Haines Criss-Cross Directory
1986	pg A54	Haines Criss-Cross Directory
1980	pg A56	Haines Criss-Cross Directory
1976	pg A59	Haines Criss-Cross Directory
1976	pg A60	Haines Criss-Cross Directory
1971	pg A63	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*

CENTRAL AVE

2017	pg. A2	EDR Digital Archive
2014	pg. A13	EDR Digital Archive
2010	pg. A23	EDR Digital Archive
2005	pg. A32	EDR Digital Archive
2000	pg. A41	EDR Digital Archive
1995	pg. A46	EDR Digital Archive
1992	pg. A51	EDR Digital Archive
1986	pg. A55	Haines Criss-Cross Directory
1980	pg. A57	Haines Criss-Cross Directory
1980	pg. A58	Haines Criss-Cross Directory
1976	pg. A61	Haines Criss-Cross Directory
1976	pg. A62	Haines Criss-Cross Directory
1971	pg. A64	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

3RD ST 2017

26670 J C AUTO REPAIR
26816 BARLETT MOTORS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017

1555	BOATMAN, BRIAN A
1565	PARRA, EDITH
1575	MAYHEW, RICHARD
1585	CERVANTES, JOSE S
1595	WILLIAMSON, WILL H
1604	IPORAC, LOWELO B
1628	VILLA, DAVID
1650	AYALA, JEREMY
1672	MARBAN, JUAN P
1694	MENDIOLA, CHRISTOPHER L
1704	CASTILLO, JESUS J
1728	VELASCO, AGAPITO C
1750	NGUYEN, KIET T
	THE NGUYEN KIET
1772	ALEXANDER, JOHN W
1794	NGUYEN, PHUONG B
1828	ALBARRAN, MICHAEL L
1850	SAVAGE, BECKI L
1872	YANG, CHEE
1894	GONZALEZ, FIOREL
1991	ABAIR, KRISTINA N
	BARNES, LORI
	BENG, PRINCE A
	BERGEE, JOSEPH E
	BRADLEY, MARCUS D
	CHARLES, ALEANTHEA D
	ESTRADA, IGNACIO
	FARLOW, TONA
	FELDER, JESSICA
	FITZERALD, GERALD
	GRIPPEN, MAX A
	GUZMAN, DAVID J
	HAHN, GREGORY D
	JANUARY, AUTUMN
	JOHNSON, NIKOLE C
	KEMP, SHIRLENE M
	MAYO, OLEY
	OAK, DYLAN C
	OWEN, BONNIE L
	SAUTEL, SALLY L
	SCHMIDT, JOHN
	SHELBY, JAMES F
	TRUSS, RONALD J
2055	AMATO, PAUL J
	ARMIJO, RONALD
	ARMSTEAD, JACK
	ASARE, HENRY
	AXELROD, SUSAN K
	BARKER, SHERMAN B
	BARNES, CAROLE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

2055	BARTHOLOW, GREGORY
	BARTHOLOW, TIFFANY
	BEAVER, ERIKKA D
	BENTLEY, SEAN
	BRATLIEN, JONATHAN M
	BROWN, RODRICK
	BUTLER, JEROME
	CASH, CAROL
	CHAVEZ, JUAN C
	CHO, ANDREW Y
	CHONG, SUONG M
	CLAIRMONT, JOHN R
	COLLINS, DEANDRE D
	COMEAUX, HISANI K
	COOPER, JASON L
	CROOMES, TATIANNA
	CRUZ, LUZ A
	CULPEPPER, PERCY
	DAVIS, BENJAMIN J
	DELGADO, NICK
	DELMI, MARTINEZ
	DEMMING, WILLIAM J
	DRAGE, THOMAS A
	DUPREEZ, TIFFANY B
	EASTER, NICK
	FEARENCE, KENNY B
	FORD, CHARLES
	GARCIA, AUSTIN J
	GIESMAN, DENNIS
	GRAEBER, ASHLEY M
	GUESS, ALLEN
	GUTIERREZ, PEDRO
	GUZMAN, VICTOR
	HALE, LYLE P
	HANNAH, BYRON
	HARDMAN, JOE D
	HASTINGS, VIC B
	HAYES, LORETTA L
	HERNANDEZ, MONICA
	HOPKINS, GINA G
	HURRINGTON, DARLA
	JACKSON, BRANDON P
	JACKSON, QUITHANA N
	JACKSON, REGINALD A
	JENKINS, ANGELA
	JOHNSON, DONALD R
	JOHNSON, ERIKA
	JONES, DANITA A
	KENNARD, GERTRUDE
	KORMILO, S

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

2055 KRAMER, JEREMY
LARA, RUDY
LARIOS, ARACELI
LEE, SHAUNEL R
LEE, VALERIE
LIGUTAN, EVANGELINE Z
LOPEZ, J
LOPEZ, VANESSA
LORIEGA, BALTAZAR V
LOYD, JIMEK
MACKLAMORE, MONA L
MANION, EVELYN E
MARQUEZ, SANDRA
MARTINEZ, ENRIQUE
MARTINEZ, OLGA
MATTHEWS, NORMAN
MCKINNEY, WILLIAM L
MEDINA, LISBETH
MEJIA, MARIO J
MENDEZ, NATALY
MENDOZA, MAYUREE H
MILLS, JENNIFER L
MIMS, COLLEEN R
MONTOYA, Y
MOORE-JR, HAROLD
NAJARRO, MARIO
NAVARRO, RICHARD
NEWQUIST, DANIEL M
NINKYI, NANCY
OBENG, SUSANA A
ORR, R
PADILLA, ROSSANA M
PATTERSON, GLORIA L
PAYSINGER, EFREM
PAYSINGER, JOHN E
PENA, LEONARD C
PENNIE, TESLER
PETERSON, DESIREE
PICARD, ALESCIA
POE, KIM D
PORTER, DERRICK W
PULASKI, CAROLYN L
RAFEH, BAHAA A
RAYA, GARCIA
REYNOLDS, ORLANDO E
REYNOLDS, YVONNE
RUELAS, HUMBERTO H
SENIOR, ANTHONY
SILVA, LAURA E
SKINNER, KRISTINA M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

2055	SMITH, GREGORY J
	SOTO, MARIA M
	STEVENSON, ATURU E
	STEWART, BETH
	SUMMERWIND CONDOMINIUMS
	SYKES, IVAN R
	TAILLEUR, HEATHER
	TAYLOR, EDWARD
	THOMAS, DIANNA L
	THOMAS, EDWARD
	TONY, MARGARITA
	TORRES, DAVID V
	TORREZ, ANTHONY
	TORREZ, DAVID
	VALDEZ, CHRISTA H
	VASQUEZ, ELIZABETH B
	WALKER, LYDIA L
	WARE, LEJEAN J
	WERNER, JESSE
	WHITE, WILLIE
	YBARRA, ELAINE
2085	ADAMS, FREDDY
	BLOUGOURAS, ANTHONY R
	BROWN, JAMIE D
	COPELAND, KHAMEKO
	DALL, MELVIN
	DOTTERY, DOROTHY M
	EDWARDS, TARALEE
	GONZALEZ, CECILIA P
	HARRISON, PATRICIA
	HAYZ, A
	HICKS, ERIC
	HIGHLAND CLUB
	HUGHES, CHRISTINA L
	HUGHES, TIMOTHY S
	HUNTER, RON
	JACKSONS, JAMES
	KOSMAL, DAVID
	LANKFORD, JERALYCE
	LENG, ROBERT L
	LONGO, THERESA K
	MADURA, CHRISTOPHER J
	MARCHAND, RYAN
	MARTINEZ, JENNIFER A
	MILNER, TOI
	MOSIER, TIMOTHY I
	MULLER, ASHLEIGH
	MULLINS, RALPH G
	NADALIN, DENNIS M
	OMWANGHE, BLESSING

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

2085	OMWANGHE, OSAMUYI
	OPORTA, ELENA
	OSORIO, JORDAN
	PERROTTE, GLYNDA
	PRICE, DORIS
	REEVES, LILIA
	ROSS, KIMBERLY
	RUSSELL, JASPER J
	SAMS, ALLEN
	SCOTT, TERASA
	SISSON, BRANDON
	STARR, DON
	TALAVERA, ANGELEA
	THOMAS, ANTONIO
	THOMPSON, ROTELIA
	TOLLIVER, ELAINE
	TUOMA, T
	UDHIRI, EMMANUEL A
	URBANO, JAVIER
	VALENZUELA, GRACE
	WARREN, MARNELL
	WELLS, ASIA
	WOOD, JOHN M
	WRIGHT, IVAN
3004	LAUTER, GERNOT G
3005	GARCIA, LINO
3029	TRAN, TAO N
3034	COLLINS, ALVIN L
3051	VO, KEN T
3064	WINTER, LARRY D
3073	DINH, THANG
3094	OQUENDO, STEVEN H
3095	MUNOZ, RENE
6978	CAMACHO LANDSCAPING INC
	CAMACHO, FLAVIO I
	CAMACHOS TREE SERVICE
7000	REDLANDS MISSION
	SCHROEDER, ROBERT F
	THE CHURCH OF JESUS CHRIST OF LATTER
7036	PERAZA, MARIA
7048	AFRAM, NADER Y
7073	MARROQUIN, JOSE F
7091	CAMARENA, ISAURA
7112	FREESE, CHARLES A
7113	MORA, JOSUE R
7120	INIQUEZ, AGUSTIN H
7125	BARAJAS, MARCO A
7130	MARTINE, ANN M
7137	VASQUEZ, JOSEPH L
7138	BALTAZAR, MARCO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

7148	NELSON, JANICE
7149	AYALA, MARCO A
7161	COTA, MANUEL A
7166	CLARKE, LLOYD A
7173	HAMLETT, RITA M
7176	REYES, MANUEL O
7184	ROJAS, JOSE
7185	ORTIZ, ARTURO
7197	SALCIDO, JOSE
7208	HOLSONBAKE, JOHN D
	WOODS, LEONARD T
7220	COTTRELL, KENNETH M
7233	ADAME, GINO F
7238	MORENO, ANNA
7252	EWING, DERRICK A
7254	VO, JOHN T
7263	CHAVEZ, JULIO C
7280	JONES, WILLIAM W
7300	ALTA DENA CERTIFIED DAIRY
7367	ALEXANDER, RAY G
	ALVARADO, ARTHUR R
	ANDRESEN, REBECCA
	ARNOLD, LEE M
	ARNOLD, MINNIE
	BAJOREK, BRIDGET A
	BARTFAY, J
	BELKE, ARNIM W
	BEVELS, SHEILIA E
	BIRKS, NORA
	BIRKS, NORELENE M
	BOISVERT, CAROLEE B
	BOLLIN, MARIE B
	BOWENS, HERLINDA E
	BRADY, MIRIAM
	BROWN, CAROL A
	BRYSON, JOHN J
	BUCHANAN, ROBERT W
	BURLEY, ARTHUR L
	CAMPANA, ALICIA
	CAMPBELL, CYNTHIA L
	CAMPBELL, LATASHA
	CASSIDY, REGINA
	CHARMENE, K
	COLLINS, PHYLLIS A
	COPETILLO, ERNEST
	COTINOLA, LEANNA M
	CRISANTES, ROBERT
	CROCFER, MORRIS J
	DE, LEON
	DELROSA, ALEX

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

7367 DESOUCY, MARVIN D
DIAZ, HENRIETTA Y
DILWORTH, BARBARA
DUGAN, ROBERT H
ELMA, HENDERSON
EVANS, CHRISTOPHER
EVANS, LILLI C
EVENCHICK, MICHAEL S
FIELDS, LINDA D
FITZPATRICK, EDWARD M
FRIES, E
FULLER, RONNIE
GALVAN, LATRICE
GARCIA, RAUL U
GARRETT, VIOLET
GEORGE, CURT L
GILL, PHYLLIS J
GONZALEZ, DAVID T
GORDON, LOLA G
HALL, A
HALL, TAJE
HANNENBERGER, DANIEL R
HARVEY, THELMA
HAYNES, NANCY H
HENDERSON, ELMA M
HERNANDEZ, SERINA
HIGGINS, SHARON K
HUG, ROBERT L
HUGHES, FRANK
HUNTER, JAMES W
HUNTER, LAMEISHA
IFIAH, TERESA
JEFFREY COURT SENIOR
JEFFREY COURT SENIOR APARTMENTS
JENKINS, EMMA B
JOHNSON, DEBRA
JOHNSON, QUEEN E
JONES, DOROTHY J
KOCH, RUTH G
KORINEK, ALLAN A
LACEY, DOROTHY
LAUSER, JUDY M
LAZARO, BERTA
LECHUGA, BEATRICE C
LECHUGA, FRANCIS L
LEHMER, BEVERLY R
LEWIS, HERMANESE L
LIZARRAGA, MARK A
MAJOR, JOHN E
MARIANO, FRANCIS L

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

7367	MARIE, QUINN
	MARQUISE, VIRGINA F
	MARTINEZ, YOLANDA D
	MCCOLLOM, CORNELIUS
	MCCOLLOM, CORNELIUS A
	MEMON, GOODLEY
	MORAIN, EUGENIA L
	MORI, TOSHIHIRO Y
	MORRIS, RICHARD
	MOTEN, RODNEY A
	MUNOZ, LINDA
	NEWTON, SAMUEL
	PARIS, KAREN
	PATRICIA, GRAHAM
	PATTERSON, MARY T
	PATTON, BARBARA L
	PEEPER, CAROL A
	PENNY, ALAM
	PETERS, DOUGLAS
	PONTIOUS, CECILIA
	PORCHIA, RICA
	POUGH, BENJAMIN A
	QUINN, MARIE
	QUINTERO, ANTONIO
	RAMEY, SANDRA K
	REY, SAMUEL J
	REYNOLDS, SANDRA L
	ROBERTSON, LOUISE
	ROBLEDO, ROBERT
	ROGERS, BERNICE
	ROSE, GREG A
	ROSE, TONI
	ROYCE, ELIZABETH
	RUIZ, JOANN
	RUMPH, CYNDI D
	SCALES, RUBYSTIEN
	SEWELL, MAURICE
	SHARP, HOWARD G
	SHEARD, LEROY
	SIMON, ELIZABETH
	SMITH, IMOGENE
	SMITH, SHAWN K
	SNEAD, ADRIANNE N
	SORIANO, ROSE M
	SORTER, BILL F
	STOVER, FRAN R
	SULLIVAN, DOUGLAS M
	SWANSON, JEANETTE
	THOMAS, KEITH D
	TOMLIN, EUGENE T

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

7367	TRENT, BARBARA J
	WALLACE, JOAN E
	WHELESS, CHARLES
	WHITE, SHEILA B
	WICKLIFFE, GAIL Y
	WILLIAMS, CARL
	WILLIAMS, WESLEY M
	WILSON, JOHN R
	WISDOM, BEVERLY
	WOODS, CAROL A
	WORSHAM, CONNIE F
	YGLESIAS, CONCHA P
	YOUSIF, BASIMAH
	ZAKARIA, NADAR J
7394	GUADAGNOLI, JOHN D
7433	CURRAN, JAMES P
7446	DIEFFENBACHER, RONALD A
7474	STIDMAN, HERSHEL P
7477	HARNITCHEK, PAUL E
7492	CASTANEDA, MARIA
7495	CALDERON, RAELYN I
7496	MACKAMUL, MARK A
7498	JIMENEZ, JESUS S
7500	MEZA, CARLOS V
7502	FORD, DARAIN S
7503	GIL, DIEGO
7504	VELOZ, ALBERTO
7506	MOORE, AUTIE P
7510	PAGALA, REMY
7516	OCHOA, JESUS
7555	NEAL, TOMMIE D
7563	NGUYEN, ZANNY N
7571	ARELLANO, JUAN
7579	BUENO, KRISTINA
7587	TURNER, ROSEVELT
7594	KOESTLAR, RICHARD G
7623	CUEN, ROSA
7632	CUEVA, ANTHONY
7633	VASQUEZ, D
7635	VAUGHN, ANNA V
7648	MENDEZ, YOLANDA
7650	HARO, VICENTE G
7656	DELGADO, KELLY
7657	MEZA, RICARDO
7678	CASTANEDA, TERESA
7682	ALVARADO, MONICA
7687	RODRIGUEZ, RAUL
7688	AGUIRRE, DAVID L
7691	SALVADOR, JAVIER M
7743	CENTRAL LITTLE LEAGUE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2017 (Cont'd)

7793	YMCA
7848	CLAYTON, STEVEN E
7858	ROBLES, CONNIE M
7863	HIGHLAND SAM J RACADIO LIBRARY ENVI
7878	ROBLES, JOSE R
8046	ERNIES UPHOLSTERY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

3RD ST 2014

26670 J C AUTO REPAIR
26816 BARLETT MOTORS
26892 OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014

1545	SAMUEL, ALBERT
1555	BOATMAN, BRIAN A
1565	PARRA, EDITH
1575	JUAREZ, ELSIE C
1585	CERVANTES, JOSE S
1595	WILLIAMSON, WILL H
1604	IPORAC, LOWELO B
1628	BENITEZ, AL I
1650	GARCIA, DIANA
1672	MARBAN, JUAN P
1694	MENDIOLA, CHRISTOPHER L
1704	CARMONA, LISA
	CASTILLO, JESUS J
1728	VELASCO, AGAPITO
1750	NGUYEN, KIET T
1772	WALKER, PATRICE
1794	NGUYEN, PHUONG B
1804	ROBERTS, OLIVIA T
1828	ALBARRAN, MICHAEL L
1850	SAVAGE, BECKI L
1872	VICARIO, STEVEN A
1894	GONZALEZ, FIO
1991	BENG, PRINCE A
	BLANCO, ANDREA
	BRADLEY, BRONSON W
	CHARLES, ALEANTHEA D
	CLARK, MICHAEL
	DRENK, ROBERT M
	ESTRADA, IGNACIO
	GRIPPEN, MAX A
	GUZMAN, DAVID J
	JANUARY, DONNA J
	KELLY, ANNETTE M
	KING, JAMIE L
	LIU, TOM P
	MAYO, OLEY
	MUNOZ, MARCELLA M
	PEREZ, JULIO O
	PERRY, YOLANDA
	SANDER, MICHAEL C
	SAUTEL, SALLY L
	SCHMIDT, JAMES
	SHELBY, JAMES F
	TRUSS, RONALD J
2055	ABDULNOUR, YAMEN
	ALATRISTE, FRANCISCO
	ARMIJO, RONALD L
	ASARE, HENRY
	BARKER, SHERMAN
	BERMUDEZ, ALEJANDRO

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

2055 BRATLIEN, JONATHAN M
BRAWLEY, SHARON
BROWN, MICHELLE
BUNTON, HUBERT A
CAMACHO, DENISE R
CHAMP, WILLIAM
CHO, ANDREW Y
CHONG, SUONG M
CLARDY, MOCCO L
COLLINS, DEANDRE D
COLVIN, CECILIA S
COMEAUX, HISANI K
COOPER, ALEXANDER
CURRY, JAMES D
DAHI, TALAL
DAVIS, BENJAMIN J
DEMMING, WILLIAM J
DINAPOLI, AMANDA S
DRAGE, THOMAS A
DUPREEZ, TIFFANY B
ESPARZA, JUAN
GARCIA, MARK L
GOMEZ, REENE
GONZALES, ANTHONETT V
GONZALES, JESS O
GUESS, TERESA J
GUZMAN, VICTOR
HAGERMAN, JOHN R
HARRISON, JOANNA
HARRISON, KAY V
HAYES, LORETTA L
HILL, EULA T
HOPKINS, GINA G
HURRINGTON, ELMO
ISLAS, OSCAR
JACKSON, BRANDON P
JACKSON, EBONY J
JACKSON, MALCOLM L
JOHNSON, TYRONNE
JONES, DANITA A
KEENE, PAULA
KENNER, LISA A
KIM, GINA
KUMAR, ANIEL
LAWRENCE, RICHARD K
LIGUTAN, EVANGELINE Z
LORIEGA, BALTAZAR V
LOYD, JIMEK
MACKLAMORE, MONA L
MALDONADO, ANTHONY R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

2055 MALONE, JARRET G
MARTIN, MICHAEL
MARTINEZ, ENRIQUE
MARTINEZ, SHARON
MATTHEWS, NORMAN
MCCAIN, TAWNI
MCCHESNEY, SHARON A
MCKAIN, JOSEPH
MCKINNEY, WILLIAM L
MILLON, BARBARA L
MONTOYA, Y
MOORE, MICHEAL
MORRONE, EDWARD
NAUCK, MARK O
NEWQUIST, DANIEL M
NINKYI, DORCAS A
NOWDEN, GERALD A
OATES, DEMETRIUS G
OBENG, SUSANA A
ORTEGA, AARON
ORTIZ, HUMBERTO
PENA, LEONARD C
PERREIRA, ANN
POTPNTIANO, PETE
PULASKI, CAROLYN L
QUINTANA, NORMA J
RAFEH, BAHAA A
ROCHON, SABRINA
RUBIO, ESTHER
SANDOVAL, ROSA I
SIMMS, JEREMIAH
SMITH, LARRY
STANDLEY, MARY E
STEEDLEY, WESLEY E
STOKES, TOMMY E
SUMMERWIND CONDOMINIUMS
SWOVERLAND, DAVID C
SYKES, IVAN R
TAIWO, EJIDIRAN
TAYLOR, DENISE
THOMAS, DIANNA L
TUTHILL, KIMBERLY M
VALDEZ, CHRISTA H
VASQUEZ, ELIZABETH B
WARD, PATRICK
WARE, LEJEAN J
WELLS, CEDRIC L
WILLIAMS, DOROTHY
YAA, BABY
YBARRA, ELAINE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

2055	YOUNAN, LINA
	ZARZECKI, SARAH
2085	ARQUETTA, JAMES
	ATKINS, QIANA B
	BALL, CONSTANCIA D
	BANKS, CHRISTINE J
	BRISTOL, DONALD V
	CHAPMAN, LARRY
	COPELAND, KHAMEKO
	CURRY, TONY
	DICKERSON, CHERE V
	DOTTERY, DOROTHY M
	EARLEY, LARRY D
	FORCH, GEORGIA M
	GONZALEZ, EVA T
	GUTIERREZ, DANIEL
	GUZMAN, SULAMITA
	HIGHLAND CLUB
	HUNT, DONALD R
	HUNTER, RON
	JORGENSEN, GRACE
	JOSEPH, MICHAEL E
	KEITH, CHRISTINA L
	KIRKENDOLL, TONI
	KOSMAL, KAREN A
	KOSTER, THOMAS
	LEWIS, DEWAIN
	LONGO, THERESA K
	LOVE, YOLANDA
	MADURA, CHRISTOPHER J
	MARCELIN, GLORIA J
	MARCHAND, RYAN
	MATA, JOSE F
	MCCOMBS, JANET L
	MULLINS, RALPH G
	NADALIN, DENNIS M
	NNAJIDE, RICHARD I
	REEVES, LILIA
	RODRIGUEZ, MARIA
	RUSSELL, JASPER J
	SMOTHERS, DESMOND G
	SYKES, KRYSTLE G
	THOMAS, ANTONIO
	THOMPSON, RONALD
	TRIMBLE, JUANITA
	WILLIAMS, RITA M
	WOOD, JOHN M
3004	LAUTER, GERNOT G
3005	GARCIA, LINO
3029	TRAN, TAO N

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

3034	COLLINS, ALVIN L
3051	VO, KEN T
3064	WINTER, LARRY D
3073	DINH, ANH
3094	OQUENDO, STEVEN H
3095	MUNOZ, RENE
6978	CAMACHO LANDSCAPING INC
	CAMACHO, FLAVIO I
	CAMACHOS TREE SERVICE
7000	OCCUPANT UNKNOWN,
	REDLANDS MISSION
	THE CHURCH OF JESUS CHRIST OF LATTER
7033	GONZALEZ, JESUS C
7036	PERAZA, MARIA
7048	AFRAM, NADER Y
7073	MARROQUIN, JOSE F
7091	VONWELTER, LAWRENCE
7112	FREESE, CHARLES A
7113	MORA, JOSEPH J
7120	INIQUEZ, AGUSTIN H
7125	OCCUPANT UNKNOWN,
7130	MARTINE, ANN M
7137	VASQUEZ, ALFRED
7138	OCCUPANT UNKNOWN,
7148	OCCUPANT UNKNOWN,
7149	OCCUPANT UNKNOWN,
7158	MARTIN, JOSE
7161	COTA, MANUEL A
7166	CLARKE, LLOYD A
7173	FIGUEROA, RICHARD W
7176	MENDEZ, LETICIA M
7184	ROJAS, ARMANDO R
7185	ORTIZ, ARTURO
7197	SALCIDO, JOSE
7208	FLURY, JOLENE
	GRACE, SABRINA
	JOHN, BRIAN
	LEONARD, WOODS
	OBRIAN, JOHN
	OCCUPANT UNKNOWN,
7220	COTTRELL, KENNETH M
7233	ROSALES, SALVADOR L
7238	MEARES, DORA C
7252	EWING, DERRICK A
7254	VO, LILLIAN T
7263	CHAVEZ, ZULEMA
7280	SMITH, JERIT L
7300	ALTA DENA CERTIFIED DAIRY
	CALIFORNIA DAIRY DISTRIBUTORS
7350	SUMMERS, AMANDA R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

7357	KOCH, RUTH
7367	ALEXANDER, RAY G
	ALLEN, MADELYN J
	ALVARADO, ARTHUR
	AMIS, CHARLES A
	ARNOLD, MINNIE
	ARRATIA, MAGDALENA
	AVALONE, JEANNE
	BAJOREK, BRIDGET A
	BAKER, THEODORE R
	BARNES, CAROLE
	BEVELS, SHEILIA E
	BIRKS, NORA
	BLOCK, LAUREATHA
	BOISVERT, CAROLEE B
	BOLLIN, MARIE B
	BOWENS, HERLINDA E
	BRAWLEY, STEPHANIE A
	BROOKS, JOSHLINE
	BRYSON, JOHN J
	CAMPBELL, CYNTHIA L
	CARPINTEYRO, MIGUEL M
	CASSIDY, REGINA
	CHAVARRIA, ROSEMARY P
	CLARE, KATHRYN
	CLAYTON, HENRY C
	COLEMAN, MISTY D
	COTINOLA, JOE S
	COY, BARBARA E
	CRISANTES, ROBERT
	CROCFER, MORRIS J
	CROSBY, GEORGIA L
	DARNELL, FOREST
	DE, LEON
	DELROSA, ALEX
	DESOUCY, MARVIN D
	DESZCZ, PATRICIA A
	DEZ, PATRICIA
	DIAZ, HENRIETTA Y
	DILWORTH, BARBARA
	DUARTE, HERMAN J
	DUGAN, ROBERT H
	DUPLECHAIN, ELNA C
	EAGER, GLENN D
	ELLEGOOD, ELEANOR
	ERVIN, STANLEY N
	ESTHER, QUEEN
	EVANS, LILLI C
	EVENCHICK, MICHAEL S
	FIELDS, LINDA D

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

7367 FITZPATRICK, DOROTHY
FREEMAN, DEANA M
FULLER, RONNIE
GARDNER, WALTER
GARRETT, VIOLET
GEORGE, CURT
GILL, CHARLES F
GILLIS, YVETTE
GOLDEN, PATRICIA
GONZALEZ, DAVID
GOODLEY, MEMON
GORDON, LOLA G
GUESS, ALICE J
HALL, A
HANNENBERGER, DANIEL R
HARVEY, THELMA
HAYNES, NANCY H
HENDON, L P
HIGGINS, SHARON K
HOUSTON, ALICE J
HUG, ROBERT L
IDDINGS, DENNIS E
ISIAH, THERESA
JEFFREY COURT SENIOR APARTMENTS
JENKINS, EMMA B
JOHN, CARLA
JOHNSON, QUEEN E
JONES, CHARLES
JOYCE, SKILLERN
JUAN, GARCIA
KRUPNIK, THELMA
LAZARO, BERTA
LECHUGA, BEATRICE C
LECHUGA, FRANCES L
LECHUGA, FRANCIS L
LENT, RONALD H
LONGFELLOW, RALPH D
MARIANO, FRANCIS L
MARTIN, JOHN D
MCCOLLOM, ANTHONY
MORAIN, EUGENIA L
MORI, TOSHIHIRO Y
MORRISEY, R
MOTEN, RODNEY A
NELSON, BOBBY R
OGATA, NOBUO J
PAGE, KIMBERLY A
PARIS, KAREN
PATTON, BARBARA L
PEEPER, CAROL A

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

7367	PORCHIA, RICA
	RAMEY, SANDRA K
	RECULL, BARBARA
	REED, ELIZABETH A
	REY, SAMUEL J
	REYNOLDS, SANDRA L
	RICHARD, CHAVEZ
	RIVERA, BEVERLY J
	ROBERTSON, LOUISE
	ROBLEDO, ROBERT
	ROGERS, BERNICE
	ROSE, GREG A
	SCALES, RUBYSTIEN
	SEEGERS, JUDY A
	SHEARD, LEROY
	SHUMPERT, R
	SKILLERN, FELTON W
	SNEAD, ADRIANNE N
	SPIERS, RUTH E
	SPRESTERSBACH, JENNEAN K
	STOVER, FRANCES R
	SULLIVAN, DOUGLAS M
	SULLIVAN, HEIDI
	THOMAS, KEITH D
	THOMPSON, CLEMONSEY
	WASHINGTON, LINDA C
	WHEAT, SANDA
	WHELESS, CHARLES
	WHITE, SHEILA B
	WILLIAMS, KIVELI
	WILSON, JOHN R
	WISDOM, BEVERLY
	WOODS, CAROL A
	WORKMAN, PATRICIA A
	WORSHAM, CONNIE F
	YGLESIAS, ROSA M
	ZAKARIA, NADAR J
	ZAPATA, ANGEL L
7394	GUADAGNOLI, JOHN D
7433	CURRAN, JAMES P
7446	DIEFFENBACHER, RONALD A
7474	STIDMAN, HERSHEL E
7477	HARNITCHEK, PAUL E
7492	CASTANEDA, ANASTACIO
7495	OCCUPANT UNKNOWN,
7496	MACKAMUL, PAULINE G
7498	FLORES, CINDY
7500	MEZA, CARLOS V
7502	FORD, DARAIN S
7503	WILBOURN, ALVIN

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2014 (Cont'd)

7504	VELOZ, ALBERTO
7506	OCCUPANT UNKNOWN,
7510	PAGALA, RAY
7514	OCCUPANT UNKNOWN,
7516	ARCE, SANDRA M
7518	OCCUPANT UNKNOWN,
7555	NEAL, TOMMIE D
7563	NGUYEN, ZANNY N
7571	ARELLANO, JUAN
7579	LOPEZ, MICHAEL R
7587	TURNER, ROSEVELT
7594	KOESTLAR, RICHARD G
7623	GUERRERO, ELIAS R
7632	CUEVA, JOSE A
7633	PEREZ, JOSE L
7635	OCCUPANT UNKNOWN,
7637	JAMESON, PHYLLIS
7648	OCCUPANT UNKNOWN,
7650	HARO, VICENTE G
7651	OCCUPANT UNKNOWN,
7653	OCCUPANT UNKNOWN,
7656	OCCUPANT UNKNOWN,
7657	OCCUPANT UNKNOWN,
7667	JIMINEZ, MIGUEL
7678	PEDROZA, ANGELA M
7682	CHAVEZ, CHANEL M
7687	RODRIGUEZ, RAUL
7688	AGUIRRE, DAVID L
7691	MANZO, CHEYENNE
7743	CENTRAL LITTLE LEAGUE
7793	YMCA
7814	ROBLEDO, LUZ N
7848	CLAYTON, STEVEN E
7858	ROBLES, CONNIE M
7863	HIGHLAND BRANCH LIBRARY
	HIGHLAND SAM J RACADIO LIBRARY & ENV
7867	MIRANDA, KAREN
7868	MAHAN, ROBERT D
7878	JOSE, ROBLES
7888	BYERS, GABRIEL M
8046	ERNIES UPHOLSTERY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

3RD ST 2010

26666	EUROPEAN AUTO
26670	J C AUTO REPAIR
26816	BARTLETT MOTORS
26892	KESTER, EMILCE M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010

1545	SAMUEL, ALBERT
1555	BOATMAN, BRIAN A
1565	PARRA, EDITH
1575	OCCUPANT UNKNOWN,
1585	OCCUPANT UNKNOWN,
1595	CHIVIS, MYRON
1604	IPORAC, LOWELO B
1628	BENITEZ, AL I
1650	FERNANDEZ, TEOFILO
1672	MARBAN, JUAN P
1694	OCCUPANT UNKNOWN,
1704	CASTILLO, THOMAS L
1728	VELASCO, AGAPITO
1750	NGUYEN, KIET T
1772	ALEXANDER, JOHN W
1794	NGUYEN, PHUONG B
1804	ROBERTS, OLIVIA T
1828	ALBARRAN, LINDA C
1850	SAVAGE, BECKI L
1872	VICARIO, STEVEN A
1894	GONZALEZ, FIOREL
1991	CLARK, MICHAEL
	DICECCA, PAUL R
	DRENK, ROBERT M
	FOSTER, JEFF J
	GRIPPEN, MAX A
	HILL, EULA T
	JACKSON, STEPHEN
	JANUARY, DONNA
	KELLY, YUKO X
	KING, JAMIE L
	MUNOZ, MARCELLA M
	OWEN, BONNIE L
	PEREZ, JULIO T
	PERRY, YOLANDA
	RUIZ, ERNEST E
	SAUTEL, SALLY L
	SCHAAB, BONNIE K
	SCHMIDT, REBECCA S
	SHELBY, JAMES F
	TRUSS, RONALD J
	UNDERWOOD, CARL P
2055	ADORNETTO, RYAN S
	ALVARADO, G
	ANDREWS, SAMUEL D
	ARMIJO, RONALD L
	BAHEEJAH, B
	BLACK, JEFFREY T
	BROCKBANK, ROGER R
	BROWN, KARIN T

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

2055 BULLOCK, MICHAEL V
BURNETT, STEVEN R
CALDERON, EUGENIO
CALDWELL, FREDERICK
CARVER, JERRY
CHAMBERLAIN, MIGUEL
CHASTAIN, MELISSA R
COHNEN, VIRGINIA M
COLLINS, LAQUINCIA
CRUZ, MONISHA D
CURRY, JAMES
DOMAN, CHRISTINE M
DS TRACER HOLDING CO
ERDOZAIN, ALBERTO N
FAROOQUI, NAJAM
FIGUEROA, JUAN P
FITZGERALD, RAY
FLOWERS, A
FOWLE, IAN K
FRAGOSA, MARY
GALLEGOS, BREANNA
GARCIA, LUPITA
GARCIA, MARK L
GILLIAM, ROBERT E
GODINEZ, JOANN
GORDON, LAURA J
HARRIS, JAMES
HAYES, LORETTA
HERNANDEZ, SALVADOR
INDERMUEHLE, JONATHAN
IZAGUIRRE, JENNYFER
JACKSON, KARI A
JARAMILLO, SUE
JETER, ANTHONY
JOHNSON, TYRONNE
JONES, ROSALIND
JORDAN, YUSUF J
LANCASTER, BOB
LIGUTAN, EVANGELINE
LOPEZ, PETER
LORIEGA, BALTAZAR V
MANGUS, KATHY L
MANN, ALISHA
MARSHALL, BRENDA
MARTINEZ, GUSTAVA
MARTINEZ, OLGA
MORALES, KRISTIN
NEWQUIST, DANIEL M
NKUGBA, CHINASA
OAKES, TIANNA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

2055 OIEN, LISA A
PARK, S
PATTERSON, KATHERINE
PENA, LEONARD C
PEREZ, NATALIE
PIZANO, AZUCENA
POTPNTIANO, PETE
PULASKI, CAROLYN L
QUINTANA, ELEANOR
RANDYS WHOLESALE & FOOD SVC
RAYA, KARINA
REYNOLDS, ORLANDO E
RUBIO, ESTHER
RUFFUS, ASHLEY
SALCEDO, V
SANCHEZ, HECTOR
SANDERS, CHRISTINA
SANTOS, ALBA
SAUCEDO, STEVE
SEABOLT, CLYDE R
SERNA, KATHY A
SILVA, LAURA E
SIMPSON, MONICA
SOMMERFELT, JAN W
SOTO, MARIA
SPEARS, MICHELLE D
STALLINGS, STEVEN
STAMEREILERS, MARIA
STEVENS, CRAIG F
STEVENS, STEPHANIE A
STOKES, TOMMY E
SUKDOL, SALLY
SUMLAR, ELIZABETH
SUMMERWIND CONDOMINIUMS
SUTPHEN, ALBERT A
SYKES, IVAN R
TURNER, SAMANTHA
TUTHILL, KIMBERLY
VASQUEZ, LUIS
WALLACE, DELORES E

2085 BALL, ERWIN D
BANKS, CHRISTINE J
BRISTOL, DONALD V
CONTRERAS, LUPE
DOTTERY, DOROTHY M
FOSTORE, RAY S
GARCIA, VALERIE
GONZALEZ, CECILIA P
GUTIERREZ, LORIE
GUTIERREZ, ROBERT E

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

2085	HEISER, WILLIAM
	HERNANDEZ, JESUS C
	HIGHLAND CLUB
	HOYLES, CAROL S
	JOSEPH, MICHAEL E
	KEY, SANDRA J
	KIM, JHIN
	KOSMAL, DAVID R
	LONGO, THERESA K
	LOYA, B
	MANA, EMMA
	MCCOMBS, ASHLEY
	MCCOMBS, JAMES L
	MONDRAGON, SANDRA
	MULLINS, RALPH G
	PEREZ, HOLLY
	RIOS, SYLVIA
	RODRIGUEZ, MARIA
	ROMERO, JOE M
	RUMSEY, CHRISTA
	SANCHEZ, VICTOR M
	THOMAS, ANTONIO
	TUOMA, T
	WESENBERG, PEG
	WILLIAMS, CAROL D
	ZILCH, KAREN M
3004	LAUTER, GERNOT G
3005	GARCIA, LINO
3029	TRAN, TAO N
3034	COLLINS, ALVIN L
3051	VO, JANIE H
3064	WINTER, LARRY D
3073	OCCUPANT UNKNOWN,
3094	OQUENDO, ROBERT I
3095	RHINEHART, AMANDA A
6978	CAMACHO, FLAVIO I
7036	LANDERS, ELIZABETH
7048	AFRAM, NADER Y
7073	OCCUPANT UNKNOWN,
7091	WELTE, LAWENACE
7112	FREESE, JOHN H
7113	MORA, JOE J
7120	INIQUEZ, AGUSTIN H
7125	OCCUPANT UNKNOWN,
7130	HSIAO, GRACE Y
7137	MORALES, D
7138	OCCUPANT UNKNOWN,
7148	NAVARRETE, MARGARITA
7149	AYALA, MARCO A
7158	MANUEL, BARBARA

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CENTRAL AVE 2010 (Cont'd)

7161	COTA, MANUEL
7166	CLARKE, LLOYD A
7173	FIGUEROA, RICHARD W
7176	MENDEZ, LETICIA M
7184	OCCUPANT UNKNOWN,
7185	ORTIZ, ARTURO
7197	SALCIDO, JOSE
7208	CHAVEZ, CHANEL M
	HOLSONBAKE, SHIRLEY A
	WOODS, LEONARD M
7220	COTTRELL, KENNETH M
7233	ROSALES, SALVADOR L
7238	MEARES, D C
7252	SCOTT, EDWARD L
7254	VO, THY T
7263	OCCUPANT UNKNOWN,
7280	MCNAIR, SARAH E
7300	ALTA DENA DAIRY
7350	SUMMERS, AMANDA R
7367	ADKINS, SELLMA T
	ALEXANDER, RAY
	ALLEN, SARAH E
	AMIS, CHARLES
	AMOS, DORIS L
	ANDRESEN, MIRIAM
	ANDREWS, HERMANESE
	AVALONE, JEANNE
	AVILA, DAVID
	BACON, CHRISTOPHER
	BAILEY, CARLA J
	BEVELS, SHEILIA E
	BLOCK, LAUREATHA
	BOWENS, HERLINDA E
	BRITT, DARRELL B
	BRYSON, JOHN J
	BURKEYBILE, LUETTA M
	CASSIDY, REGINA
	CLARE, K
	CLARK, MAROUIDA E
	CLAYTON, HENRY C
	COPEEILLO, C
	COPETILLO, CATHERINE L
	CORONA, MARGARET M
	COTINOLA, DAVID
	CRISANTES, ROBERT
	CROCFER, MORRIS J
	CRUZ, CESAR
	DARNELL, FOREST
	DESOUCY, MARVIN D
	DUARTE, HERMAN J

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-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

7367 DUGAN, ROBERT
DUPLECHAIN, ELNA C
EVANS, EUGENE C
EVENCHICK, MICHAEL S
FIELDS, LINDA D
FONSECA, ALLAN
FORD, EARLENE
FOWLER, EDWARD
GORDON, LOLA
GUESS, JEAN R
GUESS, MARY E
HALL, A
HANSON, CLIFFORD
HELTON, RUTH
HENDON, PAULINE L
HENSON, EDNA J
HIGGINS, SHARON K
HIGHAM, DONALD
HOLLINS, ETHEL M
HUG, ROBERT L
JEFFREY COURT SENIOR APARTMENT
JENKINS, EMMA B
JONES, SARAH L
KOUGHER, RANDALL L
KRUPNIK, THELMA
LAZARO, BERTA
LAZO, ROBERT J
LENT, RONALD
LIMES, TED
LOPEZ, RICARDO R
LOPRIENO, TERRY
LYSINGER, HARRY
MARLOWE, JOYCE
MASON, ROBERT
MCINTOSH, LORETTA J
MCKENZIE, CARZET
MCNAMARA, BARBARA C
MIRANDA, KAREN
MIRO, MARJORIE M
MOORE, EDYTHE E
MORAIN, EUGENIA L
MORRISEY, R
MOTEN, RODNEY A
MURPHY, MELVIN A
OWENS, T
PAGE, KIMBERLY
PATTERSON, JAMES L
PORCHIA, R
POWELL, ESTELLE
RAMEY, SANDRA K

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

7367	REY, SAMUEL R
	REYES, MIKE
	RIDER, TROY E
	RIVERA, BEVERLY J
	ROBERTSON, LOUISE
	ROBERTSON, MARY P
	RODRIGUEZ, HENRIETTA
	ROQUE, EVELYN
	ROSE, GREG
	SANCHEZ, MARY J
	SCALES, RUBYSTIEN
	SEEFRIED, ARLENE
	SHEARD, LEROY
	SHELTON, ROB L
	SHINE, LENARD
	SHYNE, JANNETTE
	SPIERS, R
	SPRIESTERSBACH, JENNEAN K
	STOVER, FRANCES R
	SULLIVAN, JOSIE A
	TAYLOR, DORA
	THOMAS, KEITH D
	TIMS, MURTHA M
	VALDIVIA, EUSEVIO
	WADE, GWENDOLYN
	WAGNER, BONNIE
	WALKER, MARGARET
	WASSERMAN, DEBRA C
	WELCH, WILLIAM J
	WHELESS, CHARLES
	YGLESIAS, ROBERT A
	YOUSIT, BASIMA
	ZAKARIA, NADAR J
	ZAPATA, DIXON
7394	GUADAGNOLI, JOHNNIE D
7433	OCCUPANT UNKNOWN,
7446	DIEFFENBACHER, RON
7474	STIDMAN, HERSHEL G
7477	OCCUPANT UNKNOWN,
7492	CASTANEDA, ANASTACIO
7495	OCCUPANT UNKNOWN,
7496	MACKAMUL, PAULINE G
7498	SIQUEIROS, HENRY
7500	HEUSEL, ROSS S
7502	FORD, DARAIN S
7503	OCCUPANT UNKNOWN,
7504	OCCUPANT UNKNOWN,
7506	STOWERS, MARIO
7510	PAGALA, REMY
7514	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2010 (Cont'd)

7516	BROWER, HELEN
7518	OCCUPANT UNKNOWN,
7555	NEAL, TOMMIE D
7563	NGUYEN, JENNY N
7571	ARELLANO, JUAN
7579	OCCUPANT UNKNOWN,
7587	TURNER, ANTHONY D
7594	MARTINEZ, SAMANTHA S
7623	ALVAREZ, SALVADOR
7632	CUEVA, JOSE A
7633	PEREZ, EZEQUIEL
7637	JAMESON, PHYLLIS
7648	OCCUPANT UNKNOWN,
7650	HARO, ELLA
7651	UNA, DENISE
7653	DEWBRE, B
7656	WAGNER, L
7657	AARON, JOSEPH G
7667	EARICKSON, DON
7678	OCCUPANT UNKNOWN,
7682	PEDROZA, ANGELA
7687	RODRIGUEZ, RAUL
7688	AGUIRRE, DAVID L
7691	FONSECA, FELIPE B
7743	CENTRAL LITTLE LEAGUE
7793	YMCA OF HIGHLANDS
7814	ROBLEDO, LUZ N
7848	CLAYTON, STEVEN E
7858	ROBLES, CONNIE M
7863	HIGHLAND BRANCH LIBRARY
7868	WEBBER, GEORGE W
7878	ROBLES, JOSE L
7888	RAMIREZ, R
8046	ERNIES UPHOLSTERY

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✓	-	EDR Digital Archive

3RD ST 2005

26666	OCCUPANT UNKNOWN,
26670	JC AUTO REPAIR
26816	BARTLETT MOTORS
26854	OCCUPANT UNKNOWN,
26892	KESTER, EMILCE M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2005

1545	OCCUPANT UNKNOWN,
1555	BOATMAN, BRIAN A
1565	REEMTS, MARTHA G
1575	JUAREZ, BARDOMIANO R
1585	CERVANTES, JOSE
1595	WILLIAMSON, WILL H
1604	IPORAC, LOWELD B
1628	BENITEZ, AL I
1650	AGUILAR, MIGUEL
1694	ONE HOUR TAXES
	ROSAS, CARMEN
1704	CASTILLO, JESUS J
1750	NGUYEN, KIET T
1772	ALEXANDER, JOHN W
1794	NGUYEN, PHUONG B
1804	ROBERTS, JACK J
1828	ALBARRAN, MICHAEL
1850	SAVAGE, BECKI L
1872	ACHESON, JEFF W
1894	HERNANDEZ, ADAM
1991	ADU-BENG, PRINCE
	AQUA BLUE POOL & SPA SERVICE
	COLLINS, CHRISTOPHER J
	DICECCA, GREGORY G
	DRENK, ROBERT M
	DURAN, LISA V
	FERNANDEZ, LEILANI B
	GIBBS, EARNEST L
	KELLY, GARY H
	LUCICH, FABIAN J
	MCCOY, BRANDIE
	MCNEIL, COLLEEN E
	MURAD, SCOTT M
	NOBLE, JUJUAN M
	OWEN, BONNIE L
	PEREZ, JULIO T
	SCHMIDT, REBECCA S
	SHELBY, JAMES
	SINGLETON, CLIFFORD L
	WALLACE, JON M
	WRIGHT, LAWRENCE
2055	ABDULNOUR, MOUNZER
	AGUIRRE, SHANNA M
	ALEXANDER, JESSIE M
	ALVARADO, G
	ANTWINE, CHARLOTTE
	ARMENDARIZ, MIGUEL
	ARROYO, ARMANDO
	ASHER INVESTMENTS INC
	AUSTIN, TONY

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CENTRAL AVE 2005 (Cont'd)

2055 BACCAM, PATRIC
BELL, CHRISTINE A
BENNETT, K K
BROWN, KARIN
BUTLER, DERRICK
BUTSCH, FRANK A
CARVER, JERRY
CASTELL, ART R
CHAMBERLAIN, MIGUEL
CHAPMAN, KELLY
CISNEROS, AMANDA
COCHRON, ELVIN
COMEAUX, HISANI K
COSTIN, CORRINE
CROSS, LOUISE L
DAILY, GERTRUDE
DAUGHERTY, FRAN L
DELEON, RICHARD
DERRAGON, DINA
DETTERBECK, TED
DICKINSON, ALICIA
DIETRICH, ALAURA L
DOMAN, CHRISTINE M
DOMINGUEZ, ERIC J
DOYLE, CRYSTAL
DUDLEY, JOSHUA
EATON, DOUGLAS H
ERDOZAIN, ALBERTO S
FLOYD, JAY A
FRANCIS, NWAGBARA
FRANKLIN, BARBARA R
GLOBAL TECHINNOVATION
GLOBALTECHINNOVATIONS
GOODWIN, JAMES W
GREEN, VICTORIA S
HAMILTON, BILLY R
HARRIS, BEN J
HORN, MARISOL
HUTCHISON, DAVID
JACKSON, REGINALD A
JACKSON, SHERYL
JOHNSON, DORIS
KENYON, RODNEY
KIES, LYDIA A
LIFE SOURCE ENTERPRISES
LUCAS, GILBERT L
LUCAS, JEANETTE
MACGREGOR, MICHELLE
MANNING, KERRI A
MARTINEZ, OLGA

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CENTRAL AVE 2005 (Cont'd)

2055 MATIAS, HILDA
MCBATH, SEAN
MCCOY, MELBA J
MCKINNEY, DWAYNE
MILAM, GARY B
MILLIGAN, HAROLD
MOKGETHI, HERMAN
MOORE, RAYMON L
MOSELY, SINCHEZE O
MUHAMMAD, VONDA W
NAVARRO, JOSE
NOWDEN, LATRINA M
OIEN, KAREN
OJINAGA, JAMES
PASOS, DAVID C
PATTERSON, KATHERINE
PETERSON, HOLLY M
RANDALL, LATOYA
RANDYS WHOLESALE AND FOOD SERVICE
RAUGHTON, ELIAS
REYNOLDS, ORLANDO E
ROSALES, KATRINA T
RUIZ, SERGIO
SANCHEZ, HECTOR
SANCHEZ, REGINA
SANTILLANES, MICHAEL M
SCOTT BOWMAN
SEABOLT, CLYDE R
SEBASTIAN, JORGE
SESMUNDO, JOHN D
SOTO, RAY
SPARGO, L
SPENCER, LINDA C
STARKS, PAUL A
STEWART, BRITTANY
SUAREZ, FRANCISCO
SUMMERWIND CONDOMINIUMS
SWEENEY, DANIEL C
TAMAYO, CYNTHIA L
TAYLOR, RENEE R
THESSIN, CHARMAINE D
THOMAS, JONIE C
TSAO, IRENE Y
UAMAOILFINN, DIARMUID
UNIQUE PHYSIQUE
VINDIOLA, LINDSAY
WATKINS, CHAD M
WENNER, JOANA
WOODS, ALBERT L
YOUNG, CARRIE

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CENTRAL AVE 2005 (Cont'd)

2055	ZAPATA, NUBIA J
2085	AMERICAN TAX SERVICE
	ANTONIA, FITE
	ANTUNEZ, RICHARD
	BALL, MELVIN C
	BATDORF, EARL E
	BLOCK, JOE C
	BONOMALE, PERCY
	CANDELARIA, MAX
	CASTANEDA, MANUEL J
	ESTRADA, RAYMOND E
	FEILD, CHRISTY
	FLOORING CONCEPTS
	FOSTORE, RAY S
	GARCIA, JENNIFER
	GRAY, ANTHONY
	GRIFFITHS, DIANE L
	HAID, JAMES C
	HEISER, AMIRA
	HIGHLAND CLUB APARTMENTS
	JOSEPH, MICHAEL E
	KIM, JHIN
	LONGO, THERESA K
	LOPEZ, MARIO A
	MATHAI, CHERIAN P
	POLLAK, MICHAEL
	RACQUET CLUB VILLAGE APTS
	RAYFORD, MAUDELL
	ROMERO, JOE M
	SANCHEZ, ATHENA M
	SMITH, LATOYA D
	SOUTHERN CATERING
	THOMAS, ANTONIO
	UDUHIRI, EMMANUEL
	WESENBERG, P
	WESENBERG, PEGGY A
	WHITE, DENIKA
	WILLIAMS, CAROL D
3004	LAUTER, GERNOT G
3005	GARCIA, LINO
3029	OCCUPANT UNKNOWN,
3034	COLLINS, ALVIN L
3051	OCCUPANT UNKNOWN,
3064	WINTER, LARRY D
3073	SAULSBERRY, CHARLES A
3094	OQUENDO, ROBERT I
3095	GARCIA, FREDERICK P
6978	CAMACHO, FLAVIO I
	CAMACHOS LANDSCAPE INC
7000	CHURCH OF JESUS CHRIST OF LATTER DAY

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CENTRAL AVE 2005 (Cont'd)

7036	LANDERS, ELIZABETH
7048	AFRAM, NADER Y
7073	OCCUPANT UNKNOWN,
7091	WELTER, LAWRENCE F
7112	FREESE, JOHN H
7113	MORA, JOE J
7120	INIQUEZ, AGUSTIN H
7125	OCCUPANT UNKNOWN,
7138	IGUALATE, JESUS
7148	STEWART, SANDY
7149	BEZERRA, RUBEN
7158	JIMENEZ, JOSE S
7161	MARTINEZ, MARCEL R
7166	CLARKE, LLOYD A
7173	HAMLETT, CHARLES E
7176	MENDEZ, LETICIA M
7184	OCCUPANT UNKNOWN,
7185	ORTIZ, GILBERTO E
7197	SALCIDO, JOSE
7208	ARROYO, CAROLYN D
	HOLSONBAKE, SHIRLEY A
	WOODS, LEONARD T
7220	COTTRELL, KENNETH
7233	ROSALES, CHUCK
7238	MEARES, D C
7252	SCOTT, EDWARD L
7254	VO, THY
7300	ALTA DENA CERTIFIED DAIRY
	CALIFORNIA DAIRY DISTRIBUTORS
7367	ADKINS, CLAY
	AMIS, CHARLES
	AMOS, DORIS
	ANDREWS, HERMANESE
	ANTHONY, JUDY
	ARANDA, RACHEL G
	AVALONE, JEANNE
	AVILA, DAVID
	BAILEY, ANGEL W
	BARNES, VERNICE
	BARRING, TERRY
	BENNETT, TERRY D
	BOURNE, ELOIS L
	BRANCATO, LYNN
	BREVARD, LEILA M
	BRIGGS, ALBERTA
	BRITT, DARRELL B
	BRYSON, JOHN J
	BURKEYBILE, LUETTA M
	BYON, YONG H
	CALVIN, EARLINE L

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CENTRAL AVE 2005 (Cont'd)

7367 CHISHOLM, DOBBOY
CLARK, MAROUIDA E
CLAYTON, HENRY C
CORONA, MARGARET M
CROCFER, MORRIS J
CROWDER, MARILYN
DAUSS, DENNIS
DELEON, MARGARET
DUARTE, HERMAN J
DUARTE, MARIAN
ESCOBAR, MARGIE
ESCOTO, HERMOGENES
EVANS, EUGENE C
EZZELL, CAROLYN
FITZPATRICK, MARIA
FOWLER, EDWARD
GARTLAND, GLORIA E
GONZALES, RUBEN V
GRIFFIN, MAGGIE L
GUESS, JEAN R
GUESS, MARY E
HAGSTROM, MARGARET A
HAMILTON, GERTRUDE L
HARRIS, WALTER L
HELTON, RUTH
HENDON, L P
HIGGINS, SHARON K
HODGE, EDWARD L
HOUCHINS, BARBARA S
HUBBS, CAROLENE L
HUG, ROBERT L
ILL, ROBERT C
JAMES, CONNIE S
JEFFERSON, INEZ
JEFFERSONS, SHANTEAL
JEFFREY COURT SENIOR APARTMENTS
JOHNSON, MINNIE P
KAY, ALAN
KELLEHER, HELEN
KIM, JAE S
KNIGHT, M
LARGE, LEWIS L
LIMES, TED
LOERA, RENE L
LORREYNE, MICHELENE
MADRIL, ROSE
MARLOWE, AUSTIN L
MARSHALL, SAM
MASOTTO, PAULINE C
MCDOWALL, ADA C

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CENTRAL AVE 2005 (Cont'd)

7367	MEADOWS, LORREN
	MOORE, BERNICE
	MOORE, EDYTHE
	MORAIN, EUGENIA L
	MORRIS, DONALD
	NEWBY, GLADYS R
	OGATA, NOBUO J
	OLEARY, TIMOTHY
	OPP, JUNE
	PALMORE, BETTY
	PITTS, LEE W
	PORTER, DONALD I
	POWELL, ESTELLE
	REEVES, IVORY
	REY, SAMUEL R
	RICHTER, DONALD C
	RISTING, ELLEN L
	ROBERTSON, LOUISE
	ROBERTSON, PATRICIA M
	ROCHETTE, LUDY A
	RODRIGUEZ, ROSEMARIE M
	ROMOS, AMELIA M
	ROYBAL, ROSE
	RUTHVEN, LAWRENCE A
	SALSBURRY, DANIEL R
	SHORT, CHARLES
	SKILLERN, FELTON W
	SKOMARS, MARCUS
	SMITH, SHIRLEY
	SORTER, ROBYN
	STAPLES, SHIRLEY A
	STEEL, JOAN
	SULLIVAN, JOSIE A
	SWEENEY, BETTY I
	TIMS, MURTHA
	TOLBERT, SYLVESTER
	TORREZ, ROBERT P
	TROZERA, F
	VASQUEZ, MARTINA
	VELAZCO, LUCIA
	WALLACE, CODDIE
	WASHINGTON, SADIE
	WASSERMAN, DEBRA C
	WATSON, KIMBERLY
	WELCH, WILLIAM
	WHITE, VIOLA L
	WILLIAMS, ROGER
	WILSON, NANCY M
	ZAKARIA, FAUSTA
	ZAPATA, ANGEL L

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CENTRAL AVE 2005 (Cont'd)

7433	CURRAN, JAMES S
7446	DIEFFENBACHER, RONALD A
7474	H AND G SWIMMING POOL SERVICE AND RE
	STIDMAN, HERSHEL G
7477	HARNITCHEK, PAUL D
7492	CASTANEDA, ANASTACIO
7495	INLAND EMPIRE SEARCH & RESCUE
	SMITH, MELODY
7496	MACKAMUL, JOSEPH P
7498	SIQUEIROS, DEBRA S
7500	HEUSEL, ROSS
7502	FORD, DARAIN S
7504	JAMERSON, KIMBERLY M
7506	MARKER, ROBERT L
7510	PAGALA, MANUEL P
7514	KING, TAMERA
7516	OCCUPANT UNKNOWN,
7555	NEAL, TOMMIE D
7563	VANNGO, JIMMY
7571	ARELLANO, JUAN
7579	LOPEZ, MICHAEL R
7587	THOMAS, STACY W
7594	OLBERT, JOANN I
7623	ORTEGA, PHILLIP
7632	BROCK, RONALD H
7633	COMPTON, LEONARD L
7637	JAMESON, PHYLLIS
7648	HARO, TOMAS
7650	REYES, ALBERTO
7651	GONZALES, JENNIE
7653	ROBERTSON, IDONNA A
7656	STEVENS, YVONNE D
7657	OCCUPANT UNKNOWN,
7678	OCCUPANT UNKNOWN,
7682	BARRIOS, DAVID
7687	RODRIGUEZ, RAUL
7688	JARA, ANGELICA
7691	FONSECA, FELIPE B
7793	YMCA OF THE EAST VALLEY THE HIGHLAND
7814	ROBLEDO, LUZ N
7848	CLAYTON, STEVEN E
7858	CASTRO, BERNARD G
7868	WEBBER, GEORGE W
7878	ROBLES, JOSE L
7888	OCCUPANT UNKNOWN,
8046	ERNIES UPHOLSTERY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

3RD ST 2000

26670 PURACES TEAM
26816 BARTLETT MOTORS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2000

6	EAST BASELINE LITTLE LEAGUE
1565	HETZLER, CARLOS
1575	OCCUPANT UNKNOWN,
1585	OCCUPANT UNKNOWN,
1595	WILLIAMSON, WILL
1604	OCCUPANT UNKNOWN,
1628	BENITEZ, AL
1772	ALEXANDER, JOHN W
1794	OLIVA, JULIO E
1804	OCCUPANT UNKNOWN,
1828	OCCUPANT UNKNOWN,
1850	SAVAGE, BECKI
1872	OCCUPANT UNKNOWN,
1894	OCCUPANT UNKNOWN,
1991	ADU, BENG P
	BRADLEY, BRONSON W
	BROWN, LENA M
	CARROLL, S
	DRENK, ROBERT M
	GROGAN, MARY L
	KELLY, ANNETTE M
	MURAD, SCOTT M
	OLIVER, MICHAEL J
	OWEN, BONNIE L
	PARRISH, J Y
	SINGLETON, C
	VEGA, SANDRA
	WRIGHT, LORENA R
2045	OCCUPANT UNKNOWN,
2083	OCCUPANT UNKNOWN,
2085	APODACA, MICHAEL J
	BELL, STEVEN H
	BENNETT, MELISSA
	BRYANT, ANTONIO
	CASTILLO, CINDY
	CLEMENTS, HOLLY E
	DIETZ, RYAN
	DOMAN, CHUCK
	FAUSTINO, JULIANA
	FIGUEROA, MARIA J
	GARCIA, ETELLA F
	HAQQ, L
	HARDAWAY, L
	JACKSON, T
	JORGENSEN, SHIRLEY G
	JOSEPH, MICHAEL E
	JUAREZ, S
	LONGO, THERESA
	MARTINEZ, DEBRA L
	MATA, LILIANA E

CENTRAL AVE 2000 (Cont'd)

2085	OWENS, TERRY
	RACQUET CLUB VILLAGE
	RAMSEY, ANNETTE A
	SCHMID, WILLIAM M
	SMITH, ANGELIA
	YOUNG, B
3029	KIDWELL, DANNY
3034	COLLINS, ALVIN L
3051	OCCUPANT UNKNOWN,
3064	WINTER, LARRY D
3073	OCCUPANT UNKNOWN,
3094	OCCUPANT UNKNOWN,
3095	KATZMAN, LOUIS S
6970	OCCUPANT UNKNOWN,
6978	CAMACHOS LANDSCAPE INCORPORATED
	MONTOYA, AIDE
7000	CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS THE
	CHURCH OF JESUS CHRIST OF LTTR DAY SAINTS THE HGLN
7033	OCCUPANT UNKNOWN,
7036	OCCUPANT UNKNOWN,
7048	OCCUPANT UNKNOWN,
7073	HARCK, JOSHUA E
7120	INIGUEZ, AGUSTIN
7125	OCCUPANT UNKNOWN,
7130	OCCUPANT UNKNOWN,
7137	OCCUPANT UNKNOWN,
7148	CASILLAS, EDWARD J
7149	OCCUPANT UNKNOWN,
7158	OCCUPANT UNKNOWN,
7161	OCCUPANT UNKNOWN,
7166	OCCUPANT UNKNOWN,
7173	HAMLETT, RUBY C
7176	OLAGUE, HOPE
7184	OCCUPANT UNKNOWN,
7194	PAUPER, PAUL M
7197	OCCUPANT UNKNOWN,
7208	HOLSONBAKE, SHIRLEY A
	PRICE, AMIE N
7220	COTTRELL, KENNETH
7233	ROSALES, AL J
7238	MEARES, DORA C
7300	ALTA DENA CERTIFIED DAIRY
	CIUFO CORPORATION
7367	ALLEN, MADELYN J
	BAJOREK, BRIDGET
	BONADONNA, HELEN M
	BREVARD, LEILA M
	BRIMOVSKY, PAULA J
	CALVIN, EARLINE
	CHISHOLM, DOBBOY

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2000 (Cont'd)

7367 CLENARD, CLAUDIA
COPLEY, RUTH A
DAVIS, INEZ H
DOWELL, ALICE M
EDWARDS, CLEONE A
GALLOWAY, V
GILBERTS, BEVERLY J
GRAY, JAMES M
GUERTNER, RUTH
HAMILTON, G
HOUCHINS, BARBARA S
HUNSAKER, MARIE
JEFFREY COURT BEAUTY SALON
JEFFREY COURT SENIOR APARTMENTS
JENKINS, EMMA B
JONES, JOE A
KARPINSKI, BARBARA
KELLEHER, HELEN
KIM, JAE S
KING, K F
KOBLER, JANET K
KOO, BONG H
LAGUNA LANDMARK
LIGHTFOOT, RUTH A
MARTHA, G S
MASON, DIANE E
MATA, LILIA
MCDOWALL, ADA A
MCMILLAN, JOAN M
METEER, JAMES
MICHALLI, ARHTUR
MICHELLI, ARTHUR E
MORA, ENRIQUE H
MOTEN, WILLIE B
NICKERSON, IDA L
NORMAN, LUCILLE
OLEARY, TIMOTHY H
PARR, BOBBIE
PATTERSON, D
PEASLEE, G E
PIESON, BETTY
PLEASENT, JOHNSON M
PORTER, DONALD I
QUINTANA, ELEANOR
REYES, K
RISTING, E L
RUBIO, JOVITA C
RUTHVEN, THELMA C
SALMON, LARRY
SAUCEDA, C

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 2000 (Cont'd)

7367	STALLWORTH, H
	STAPLES, SHIRLEY A
	WALRATH, VELMA
	WISDOM, H
	ZAPATA, ANGEL L
7394	COFFEE, JOHN
7415	OCCUPANT UNKNOWN,
7433	CURRAN, JAMES S
7446	OCCUPANT UNKNOWN,
7474	STIDMAN, HERSHEL G
7477	HARNITCHEK, PAUL
7492	HAFFNER, GLENWYN V
7495	OCCUPANT UNKNOWN,
7496	MACKAMUL, JOSEPH
7498	OCCUPANT UNKNOWN,
7500	SHULEETA, MIKE B
7502	FORD, DARAIN
7503	WOODFORD, JAMIE
7504	OCCUPANT UNKNOWN,
7506	LAFFIN, SCOTT S
	MARKER, ROBERT L
	SHUTTA, HOLLY
7510	OCCUPANT UNKNOWN,
7514	LABRE, DANIEL
7516	ROSA, LAURA M
7518	OCCUPANT UNKNOWN,
7555	NEAL, TOMMIE D
7571	OCCUPANT UNKNOWN,
7579	MARTINEZ, ROBERT J
7587	THOMAS, STACY
7623	RICO, GINA M
7632	BROCK, RONALD
7633	OCCUPANT UNKNOWN,
7635	OCCUPANT UNKNOWN,
7648	OCCUPANT UNKNOWN,
7650	OCCUPANT UNKNOWN,
7653	ROBERTSON, IDONNA A
7657	OCCUPANT UNKNOWN,
7667	EARICKSON, JOHN
7682	BARRIOS, DAVID
7688	MULLIGAN, STEVE G
7814	ROBLEDO, LUZ
7816	OCCUPANT UNKNOWN,
7848	CLAYTON, STEVEN E
7858	ROBLES, CONNIE M
7868	WEBBER, TRACY
7878	TORRE, F D
8046	ERNIES UPHOLSTERY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

3RD ST 1995

26668	PURACES USED CARS
26670	GRILL, RALPH J
26672	OCCUPANT UNKNOWNN
26816	BARTLETT MOTORS
	OCCUPANT UNKNOWNN
26854	WARD, MARTHA E
26892	NEWSOM, ERNEST R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1995

6	EAST BASELINE LITTLE LEAGUE
1565	HETZLER, MARTHA G
1575	JUAREZ, RODOLFO
1585	SHERIDAN, TIMOTHY
1595	WILLIAMSON, SHARON
1628	BENITEZ, AL
1672	PIEDRA, ALVARO
1694	LANIER, RICHARD D
1704	CASTILLO, B
1728	OCCUPANT UNKNOWNN
1750	EKE, KENNETH
1772	OCCUPANT UNKNOWNN
1794	OCCUPANT UNKNOWNN
1804	ROBERTS, JACK J
1828	ALBARRAN, MICHAEL
1850	SAVAGE, BECKI
1872	PRINGLE, GARY
1894	MCCREADY, PAULA
1991	DELEON, RAMON JR
	HARDIN, MICHELL
	HARNITCHEK, PAUL E
	MONEY, C M
	REAMS, FRANCES
	ROSS, JOHN
	SUMMERVILLE, VIVIAN
	WILLOW CREEK TOWNHOMES
2055	ABDULNOUR, SUHEIL
	AYALA, VICTOR
	BARRON, E
	BASS, CAROLYN
	BRIDGES, DEE
	BROWN, TIMOTHY
	BUFFINGTON, CHARLES
	BUSHONG, LARRY
	CANON, ANDRES
	CARLSON, BRIAN R
	CLARK, STEPHEN J
	DUSTER, LORI
	GARCIA, JOE
	GHAZZAOUI, FOUAD
	GOBER, GERKIN
	GORMLEY, JEAN
	HINDERLIDER, MARY
	HINZ, DONALD K
	HO, ANTHONY
	HOLLY, SYLVIA
	HUDSON, TRACY
	JAMES, BOB
	JOHNSON, DONALD
	KELLY, THOMAS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1995 (Cont'd)

2055 KIMBALL, E V
KNIGHT, JAMES S
LALLY, JAY
LAUBHAM, BECKY
MARROQUIN, CARLOS
MIDDLEWOOD, WIROJA
MILLER, D J
MORGAN, LINDA
OIEN, KAREN
PAK, EUN P
PARK, HEUNG J
PEGTION, N
PERRY, ROBERT
PETERS, KARL
PORTER, JACK L
POTTS, BARBARA S
QUINONES, LISA
ROBINSON, MOLICE
SIMPSON, ROBT
SIMS, RODNEY
SORAIZ, DARCY
SPALDING, DENNIS
SPAULDING, LARRY
STERN, DARLA
STRONG, MANDY
SYKES, JOHNNA L
TORRES, R
TSUDA, NICOLA
WALKER, SHERRI
WALTZ, DEANNE
WEAVER, AMELIA
WILLIAMS, JENNIE
WINDISH, MARLA K
WUN, WILSON
YOUNG, LOWYNN Y
2085 AUSTIN, LAVADA
BANKS, C J
BENITEZ, KIMIAN
BLUMGART, KENDRA
CANDELARIA, R
DIDONATO, TAMMY L
FELMLEY, NEIL
FIGUEROA, LINDA
GIBFORD, ELLA
HEGGI, ERIC
KEARNS, VICTOR
LENG, ROBERT L
LEON, LISA A
MAHONEY, PAT
NADLER, LANDON

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1995 (Cont'd)

2085	OCHOA, Z
	REINHARDT, RITA
	SCOTT, LORRI
	SORTER, BILL
	STARK, RICHARD G
	TUTSON, WALTER
	UPDEGRAFF, K
	VANSICE, DAVID
	WEEKS, K V
3004	LAUTER, GERNOT
3005	KHODR, A
3029	OCCUPANT UNKNOWNN
3034	COLLINS, ALVIN L
3051	MASSUERE, KELLIE A
3064	OCCUPANT UNKNOWNN
3073	OLGUIN, RICHARD B
3094	OQUENDO, ROBERT
3095	KATZMAN, LOUIS
7000	CHURCH OF JESUS CHRIST LDS
7033	LEE, MATTHEW
7036	KELLEY, C J
7048	ALLEN, BILLY M
7073	BARENTINE, VICKY
7091	WELTER, L F
7112	OCCUPANT UNKNOWNN
7113	MORA, JOSUE
7120	OCCUPANT UNKNOWNN
7125	WALKER, URBAN M
7130	GARCIA, URIEL
7137	WALKER, JAMES M
7138	HOUCHENS, DAVID
7149	SUMNER, BRIANA
7158	OCCUPANT UNKNOWNN
7161	MARTINEZ, NICK A
7173	OCCUPANT UNKNOWNN
7184	OCCUPANT UNKNOWNN
7185	GAUGHAN, M
7194	PAUPER, PAUL M
7197	GIBSON, DARRYL
7220	COTTRELL, ANNE M
7233	ROSALES, SYLVIA
7238	MEARES, DORA C
7252	OCCUPANT UNKNOWNN
7254	DANG, LENGOC
7263	DAVIS, NANNIE B
7280	OCCUPANT UNKNOWNN
7300	ALTA DENA CERTIFIED DAIRY
7394	COFFEE, JOHN
7415	TAPIA, ERNEST
7433	CURRAN, C V

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1995 (Cont'd)

7446	OCCUPANT UNKNOWNN
7474	H & G SWIMMING POOL RPR & STIDMAN, HERSHEL G
7477	OCCUPANT UNKNOWNN
7492	HAFFNER, GLENWYN V
7495	NELSON, L B
7496	MACKAMUL, JOSEPH
7498	SIQUEIROS, DEBRA S
7500	OCCUPANT UNKNOWNN
7502	NEAL, DELLA
7504	LEWIS, WILLIAM J
7506	PACENTINE, ARMOND D
7510	PAGALA, MANUEL P
7514	OCCUPANT UNKNOWNN
7518	ACUNA, JODY M
7555	NEAL, TOMMIE D
7579	LOPEZ, MICHAEL R
7587	MUSHRUSH, RANDAL E
7623	MCDANIELS, LLOYD
7632	BROCK, RONALD
7633	WALLIS, ALAN S
7635	BRIGGS, JAMES M
7648	JACKSON, LYNN
7650	OCCUPANT UNKNOWNN
7653	ELDER, IDONNA A
7656	BETTEN, MARY M
7657	OCCUPANT UNKNOWNN
7667	EARICKSON, JOHN K
7678	OCCUPANT UNKNOWNN
7682	BARRIOS, DAVID
7687	REID, MAURICE L
7688	OCCUPANT UNKNOWNN
7691	OCCUPANT UNKNOWNN
7814	OCCUPANT UNKNOWNN
7828	ROBLES, MARIA
7848	CLAYTON, STEVEN E
7858	CASTRO, MANUEL J
7868	WEBBER, TRACY
7878	ESPINOZA, CLAUDIA
8046	ERNIES UPHOLSTERY

Target Street	Cross Street	Source
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3RD ST 1992

26668	PURACES TEAM
26670	GOTUR, D
26816	BARTLETT MOTORS
26854	DOLLHOUSE
26892	NEWSOM, ERNEST R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1992

1131	GRONING, OTTO
1575	JUAREZ, RODOLFO
1585	SHERIDAN, TIMOTHY
1595	WILLIAMSON, S
1628	BENITEZ, AL
1704	CASTILLO, B
1750	EKE, KENNETH
1772	ALEXANDER, JOHN W
1850	SAVAGE, BECKI
1872	PRINGLE, GARY
1991	MAHAN, CRAIG A
	SINGLETON, K
2055	CROFTS, L J
	GREER, T
	HARADA, AKIKO
	JOHNSON, DONALD
	KERN, BLAINE
	KORYNTA, AIMEE
	LANE, EDNA
	MADLA, MANUEL P
	MALIPEDDI, SATISH
	MCNICHOLAS, CECIL R
	NADEAU, KENNETH
	NEILSSIEN, LOREEN
	OIEN, KAREN
	OLIVER, JERRY
	PARK, HEUNG J
	ROCHA, ALEX
	SEALIE, A
	SMITH, RUDOLPH
	STRONG, MANDY
	WILSON, GARY
	ZAMORA, L R
2085	CURTIS, FRANK
	HOMOLYA, ROSE
	JENSEN, RICHARD
	KNIGHT, RICHARD
	KWEITER, GEORGI
	LAWVER, JEFF
	MITCHELL, MICHAEL
	PENNEY, ARTY
	RACQUET CLUB VLG
3004	LAUTER, G
3005	NICHOLS, DENNIS L
3034	COLLINS, ALVIN L
3094	OQUENDO, ROBERT
6978	PRESTIGE, FRANCES
7000	CHURCH JESUS CHRIST
7073	BARENTINE, VICKY
7120	BROWN, CHESTER F

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

CENTRAL AVE 1992 (Cont'd)

7125	WALKER, URBAN M
7130	GOETHE, DOUGLAS
7137	WALKER, JAMES M
7138	HOUCHENS, DAVID
7149	LEATHERMAN, D M
7158	JIMENEZ, JOSE S
7185	GAUGHAN, M
7194	PAUPER, PAUL M
7238	BABB, D M
	MEARES, DORA C
7280	HALVERSON, MARLIN
7300	ALTA DENA DAIRY
7394	COFFEE, JOHN
7415	TAPIA, ERNEST
7446	DIEFFENBACHER, R A
7474	H&G SWIM PL SRV&RPR
	STIDMAN, HERSHEL G
7496	MACKAMUL, JOSEPH
7504	LEWIS, WILLIAM
7506	PACENTINE, ARMOND
7516	DUNCAN, K
7632	BROCK, RONALD
7678	BARRIOS, DAVID
7687	REID, MAURICE L
7814	ROBLEDO, JOSE L SR
7868	WEBBER, TRACY
7878	VUONG, KHANH
8046	ERNIES UNHOLSTERY
20555	REX, JEAN
199111	EBINA, KENNETH S
199122	NEGRETE, STEVE
205510	POWELL, BRENT A
205512	CARLSON, BRIAN R
205513	SCHUG, F D
208511	STARK, RICHARD G
208528	HARLACKER, WAYNE
208534	BLOUGOURAS, ANTHONY
208552	CARPENTER, RICHARD
208573	AMENTASTRO, DENNIS

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3RD ST 1986

3RD E 92346 HIGHLAND

28116	COOP AUTO BODY&PNTD	888-4398	+6
26492	KOZY KORNER	862-9906	
26530	A 1 WASHER&REFRGRTN	889-3098	2
	D&G REFRIGERATION	885-6302	2
	DOTSON RAYMOND A	884-2900	+6
	PARKERS AIR CND&HTG	790-1155	+6
	PARKERS AIR CND&HTG	862-6555	2
	PARKERS REFRID SERV	862-5555	
26540	SARGES	664-4061	3
28552	ZUMBRUN ARTHUR	882-8241	
28580	XXXX	00	
28668	FOREIGN AUTO SALES	664-8040	6
28670	AUTO BDY&PNT SPCLST	864-4120	+6
26854	WARD DAN	882-4073	
26916	LOGAN GREG	862-1072	9
26996	SIERRA HOTEL SALOON	662-6111	5
27106	XXXX	00	
27114	CHEROKEE CONSTR	864-7144	+6
27132	SCHERADELLA GENE	882-6379	+6
	SCHERADELLA HELEN	882-8379	+6
27134	YBARRA BEN P	862-8372	
27138	JENKINS C B MRS	662-1880	

HAINES & CO INC INFORMATION ON THIS PAGE MA

Target Street	Cross Street	Source
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3RD ST 1986

3RD E		92346 CONT	
27178	WARD LILLIAN S	862-4032	
27192	ECCENTRIC ENGINRNG	882-5330	2
27196	J&B MANUFACTURING	882-4254	5
27198	C T S UNDERGROUND	864-1510	+6
27202	COURTNEYS ELECTRIC	882-5335	+6
27206	B C P C	862-1031	3
	PARMELEE ELECTRIC	883-1822	2
27208	J&S OF CALIFORNIA	864-4043	5
27210	DUNN RICH	864-0333	+8
27236	LEWIS BODY SHOP	662-5342	
27344	CABINETMAKER THE	884-7772	5
	SILL SWITZER WOOD	864-0075	1
27437	BINGMAN PHILLIP L	862-4451	+6
27803	XXXX	00	
28421	XXXX	00	
28435	XXXX	00	
28474	RIEDMAN FRED	862-3495	
28479	BOULDER TRLR PK		
	AGUIRRE ANDRES	862-5177	
	GUINN HOMER E	864-4499	2
	LAIL JAS W	864-1892	1
	PRICE ANDREW	864-1341	0
	SMEDLEY FRANK L	862-0102	4
	STJEAN M L	864-3858	2
	WATSON LEONARD	862-3697	
	WISSERT HAROLD L	864-1481	
28479			
*	24 BUS 24 RES	11 NEW	

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

CENTRAL AVE 1986

CENTRAL AV 92346
HIGHLAND

6976	PRESTIGE FRANCES	864-6519	+S
7000	CHURCH JESUS CHRIST	864-3162	3
	CHURCH JESUS CHRIST	864-1600	4
	CHURCH JESUS CHRIST	864-1600	4
	CHURCH JESUS CHRIST	862-9972	4
7120	BROWN C F	862-3817	6
7125	WALKER URBAN M	862-6942	
7130	GOETHE DOUGLAS	862-7299	
7137	WALKER HELEN E	862-1706	
	WALKER JAS M	862-1706	
7138	HOUCHENS DAVID	862-5129	9
7146	KOEHLER DUANE L	862-4928	0
7163	LEWIS RICHARD E	862-2966	
7161	BYRNES SUSAN	864-6475	+6
7173	RANDOLPH CURTIS	864-6766	+6
7184	SCHAFER MACK	862-2173	
7186	GAUGHAN FRANK J	862-8244	
7194	PAUPER PAUL M	884-4926	2
7208	RICHARDSON H M	862-2022	
	STEVENS SCOTT D	864-2454	2
7237	BABB D M	862-4452	+6
7238	LEDESTICH ANTHONY G	864-1609	+6
	MEARES D C	862-4452	9
7252	FRIEND C W	864-7426	+6
7394	COFFEE JOHN	862-3056	
7433	XXXX	00	
7446	DIEFFENBACHER R A	862-6586	
7474	HAG SWIM PL BRVARPR	864-0171	9
	STIDMAN HERSHEL G	864-0500	9
	STIDMAN JEWEL	864-0510	9
7477	SIMPKINS GUY E	862-5256	0
7486	NELSON L B	862-3816	0
7496	MACKAMUL JOS	862-6034	
7496	XXXX	00	
7506	HOLCOMB ELTON	862-7026	0
7610	CUNNINGHAM P A	364-1586	+6
7618	XXXX	00	
7667	KLINE PAUL	862-8675	
7936	ELLIS G E	862-9742	
7645	FIRCHOW K	862-1402	+6
7663	ROBERTSON IDONNA A	862-4623	
7667	HERNANDEZ ERNEST P	862-6722	0
7675	BARRIOS DAVID	884-1447	1
7682	BARRIOS DAVID	862-1246	5
7667	REID MAURICE L	864-1234	7
7688	XXXX	00	
7961	WILLIAMS ALBERT	862-7684	
7814	ROBLEDO JOSE L SR	882-6716	
7868	WEBBER TRACY	882-6438	6
7885	OLIVE B R	882-1167	
8048	ERNIES UNHOLSTERY	862-3367	9
*	6 BUS 45 RES	S NEW	

Target Street	Cross Street	Source
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3RD ST 1980

3RD E 92346 HIGHLAND

26492★	**KOZY KORNER**	**862-9905**
26530	XXXX	00
26540	XXXX	00
26552	ZUMBRUN ARTHUR	862-8241
26566★	**D&G REFRIGERATION**	**885-8302 9**
26580★	**A 1 WASHER&REFRGRTH**	**889-3096 7**
★	**DOTSON RAYMOND A**	**884-2900 5**
★	**PARKERS AIR CNDG**	**884-2900+0**
★	**PARKERS RFRGRTN SV**	**862-5555**
26668	XXXX	00
26670★	**PROTS O CALL**	**864-0467+0**
26734	XXXX	00
26754	XXXX	00
26854	WARD DAN	862-4073
26918	LOGAN GREG	862-1072 9
26996	LEVERETTE F J	862-2992 9
26998★	**BLARNEY STONE**	**862-1491+0**
27062	LEE RONALD F	864-1511 8
	WYATT C E	864-1511 8
27106	BOUDREAUX MAURICE	862-7790 5
27114	WATERMAN FRANCIS	864-1957 9
27132	RODRIGUEZ ROGELIO	864-2785 +0
27134	YBARRA BEN P	862-8372
27136	JENKINS C B MRS	862-1880
27178	WARD LILLIAN S	862-4032
27202★	**DAVEYS ELECTRIC**	**862-5120+0**
27208★	**ELITE SIGNS**	**864-2490+0**
27236★	**LEWIS BODY SHOP**	**862-5342**
27344★	**A&R ELECTRIC**	**864-0820+0**
★	**ABURTOS CABINETS**	**864-1502+0**
★	**C M I AIR CNDG&HTG**	**862-5531+0**
★	**SILLSWITZER WD DSGN**	**864-0075+0**
★	**TOWN&CNTRY UPHLSTRY**	**864-0861+0**
27380	XXXX	00
27735.....	HACIENDA MBL HMS	
	ALBRECHT WILLIAM	862-0772 9
	ANDERSON HAROLD	864-2982 +0
	ANDERSON V J	862-1739 +0
	BAKER OLA	862-9249 9
	BLOUNT DONNA L	862-7267 +0
	BONKOWSKI CHET	862-9090 8
	BURNSIDE GEO	862-6271 +0
	CHAVEZ EUGENE	862-1487 +0
	CROUCH OWEN M	864-3237 +0
	DAVENPORT WILSON E	864-1639 4
	EUGENE CHAVEZ	862-1487 +0
	FLAGG LARRY M	862-5928 +0
★	**HACIENDA MOBILE HME**	**862-4414 4**
	HENSLEY Y	862-6680 +0
	HOLMES CHESTER	862-7418 8
	HUMPHREY EMORY Q	864-1226 +0
	HUNT HAROLD	862-3063 7
	KNOTTS MICHAEL	864-1982 8
	LOOMIS HAROLD L JR	862-9118
	MCDANIELS CAROL J	864-2647 +0
	MERCIER HAROLD D JR	862-8307 +0
	MINCHCW MICHAEL E	864-3848 +0
	MUSSON LARRY	862-6886 9
	PETERSON LARRY	862-1464 3
	POINTER FLOYD A	862-5683 9
	PRATT COURTLAND C	864-0349 +0
	RAMAGE RICK L	862-5401 +0
	RHYNES MAXINE L	862-5401 +0
	SHIMABUKURO KEN	862-7833 9
	SKEETE C	864-2345 +0
	SMITH HOWARD G	862-2451 9
	TIPTON O A	864-0282 +0
	TUCK JEROME	862-1380 +0
	VILLA M R	862-1060 9
	WING M D	862-5100 +0
27735.....		
27803	FUNK MICHAEL K	864-0216 +0
27828	XXXX	00
27902	PENZIEN WM	862-0760 9
27920	XXXX	00
27960	AVANCE JACK	862-2293 6
	HENNY PENNY	862-5420 +0
28117	VANMEETEREN A A	862-8416
28135	VANMEETEREN CHUCK	862-2466 8
28175	VANMEETEREN CHAS E	862-3470
28201★	**DUDAS GOLF RANGE**	**862-8657**
28214	HAMAMURA RONALD A	862-8432
28343★	**RISCO INC**	**862-1612 8**
28421	HENDERSON LESLIE E	862-3742
28474	RIEDMAN FRED	862-3495 3
28479.....	BOULDER TRLR PK	
	AGUIRRE ANDRES	862-5177 5
	CAMPBELL ADAMS MARK	864-3716 +0
	DOTSON WM D	864-1950 +0
	GRINDLE W E	862-5219 +0
	LUNSFORD LUTHER J	862-7756 6
	MEDINA VICENTE L	862-9549 +0
	MILLER WILLIAM H	862-6445 +0
	MILLER WM H	862-6445 8
	PRICE ANDREW	864-1341 +0
	REA CHAS W	864-0433 4
	WATSON LEONARD	862-3697 5
	WISSERT HAROLD L	864-1481 4
	WUESTHOFF JOHN	862-5336 7
28479.....		
28497	XXXX	00
28590	CERVANTES FRANK	862-1686
28749	LEMMOND JODI	862-2103 +0
★	19 BUS 80 RES	40 NEW

Target Street	Cross Street	Source
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CENTRAL AVE 1980

CENTRAL AV 92346
HIGHLAND

6978	PRESTIDGE FRANCES	862-3698	
	PRESTIDGE TRUMAN	862-3698	
7000★	**CHURCH JESUS CHRIST**	**862-9972**	**+0**
★	**CHURCH JESUS CHRIST**	**862-4849**	**+0**
★	**CHURCH JESUS CHRIST**	**864-1800**	**7**
★	**CHURCH JESUS CHRIST**	**864-1600**	**9**
7033	STEINHOUR DOUGLAS M	864-1295	+0
7036	FERRAND PETER J	862-9656	9
7058	XXXX	00	
7073	BARENTINE HARLEY	862-3351	
	BARENTINE VICTORIA	862-3351	
7091	XXXX	00	
7113	GUSHARD DANIEL	862-7295	9
7120	BROWN C F	862-3817	8
7125	WALKER URBAN M	862-8942	
7130	GOETHE DOUGLAS	862-7299	6
7137	WALKER HELEN E	862-1706	
	WALKER JAS M	862-1706	
7138	HOUCHENS DAVID	862-5129	9
7148	KOEHLER DUANE L	862-4928	+0
7149	XXXX	00	
7158	LEWIS RICHARD E	862-2968	4
7161	XXXX	00	
7166	XXXX	00	
7173	WEBB ALLEN	862-4315	
7176	XXXX	00	
7184	SCHAFER MACK	862-2173	
7185	GAUGHAN FRANK J	862-8244	
7194	RUCKS LORRAINE C	862-6103	+0
7197	LATHROP LARRY	862-4483	+0
7208	RICHARDSON H M	862-2022	6
7233	MCNAMARA DENNIS R	862-7983	9
7238	MEARES D C	862-4452	9
7280	XXXX	00	
7394	COFFEE JOHN	862-3056	
7415	XXXX	00	
7446	DIEFFENBACHER MARK	864-0272	9
	DIEFFENBACHER R A	862-9588	6
7474★	**H&G SWIMMG POOL SV**	**864-0171**	**9**
	STIDMAN HERSHEL G	864-0500	9
	STIDMAN JEWEL	864-0510	9
7477	MOORE JOHN GARY	862-5319	9
	SIMPKINS GUY E	862-5259	+0
7492	XXXX	00	
7495	NELSON L B	862-3819	+0
7496	MACKAMUL JOS	862-8034	
7498	XXXX	00	
7500	XXXX	00	
7502	SCHEIDECKER G	862-9607	5
7503	XXXX	00	
7504	RAYDON JACK	862-2583	9
7506	HOLCOMB ELTON	862-7028	+0
7514	GUEK TIM G	862-4286	+0
7516	SCIOLLA JAMES R	864-1895	9
7518	XXXX	00	
7594	XXXX	00	
7597	KLINE PAUL	862-8675	
7623	BENNETT DAN	864-1893	9
7632	BROCK RONALD	862-6131	
7633	MOBLEY JAS E	864-2316	+0
7635	ELLIS G E	862-9742	6
7648	RICHARDSON L M	862-2334	5
7650	ARIAS MANUEL F JR	864-3139	+0
7653	ROBERTSON IDONNA	862-4623	

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CENTRAL AVE 1980

..CENTRAL AV 92346 CONT..

7656	XXXX	00
7657	HERNANDEZ ERNEST P	862-6722 +0
7667	XXXX	00
7682	XXXX	00
7684	XXXX	00
7687	REID MAURICE L	864-1234 7
7688	HOWARD IVRA	864-3258 +0
7691	WILLIAMS ALBERT	862-7964
7814	ROBLEDO JOSE L SR	862-6715
7848	XXXX	00
7858	ROBLES C	862-2910 3
7868	WEBBER TRACY	862-6436 9
7888	OLIVE B R	862-1157 5
8046★	ERNIES UPHOLSTERY	862-3387 9
8082	XXXX	00
★	6 BUS 73 RES	14 NEW

Target Street	Cross Street	Source
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3RD ST 1976

3RD E 92346 HIGHLAND

```
24617*LOS TRES PANCHONES 888-0916+6
24690*ADORED CHLDRNS FURN888-4439+6
24733 HICKS ART          888-4353 5
24803 DOOLEN JIM         888-4395+6
25070 BALDWIN CONNIE     888-1645+6
25300*PINE COVE          888-9234+6
26114  XXXX              00
26116*CO OP AUTO BODY&PNT888-4398
26175  XXXX              00
26492*KOZY KORNER        862-9905
26530  XXXX              00
26540*ROUND UP THE       862-9838+6
26552 ZUMBRUN ARTHUR     862-8241
26580*A 1 WASHER&RFRGTN  862-8413 4
      DOTSON RAYMOND A   884-2900 5
     *DOTSONS INSULATION 884-2900 4
```

xcept as authorized in writing by Haines & Co., Inc.

Target Street	Cross Street	Source
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3RD ST 1976

```
..3RD E                    92346 CONT..
     *PARKERS RFRGRTN SV 862-5555
26734  XXXX                 OO
26754  XXXX                 OO
26854 WARD DAN              862-4073
26996  XXXX                 OO
26998*VICKYS BAR            862-9913+6
27062 JONES JUDITH S        862-0684
      SPITLER IRENE M       862-0684
27106 BOUDREAUX MAURICE     862-7790 5
27114*LAFON EQUIPMENT CO 862-0533
     *LAFONS TREE SERVICE884-3600
27134 YBARRA BEN P          862-8372
27136 JENKINS C B MRS       862-1680
27178 WARD LILLIAN S        862-4032
27236*LEWIS BODY SHOP        862-5342
27380  XXXX                 OO
27735...HACIENDA MOBILE HM
      BROWN BOB             862-7442+6
      BRUTON DAVID J        862-3872 5
      CALLEROS DAVID        864-1828 5
      CHAVEZ EUGENE         862-1487 5
      CLYDE JOSEPHINE P     864-1987+6
      DAVENPORT WILSON E 864-1639 4
      DIXSON ROBT P         864-1383 5
      DUNTSCH DAVID L       862-4395 3
      FISCHER MICHAEL G     862-5283 5
      FUNK KENNETH H MSGT864-0808 4
      FUNK VIOLET M         864-0808 4
      GASSEN VERN SR        864-1170 4
      GRUBEN G K            862-6322 3
     *HACIENDA MOBILE HME862-4414 4
      HAMMOCK ALPHA         862-6772 5
      HAMMOCK HARRY         862-6772 5
      HARVEY JOAN M         862-7845 3
      HARVEY REX J 2LT      862-7845 3
      JUCHEM WM             862-4430
      KNOTTS LARRY S SGT 862-4414
      LACKEY FRED           862-6507+6
      LOOMIS HAROLD L JR 862-9118
      MURPHEY JOHN L        862-9079+6
      ONDRASEK B J SSGT     862-5687 4
      PARRISH HAROLD R      864-0427 5
      PETERSON LARRY        862-1464 3
      SIKES KENNETH         862-2863+6
      SNOW JACK C           862-5778 4
      STACK WM L            862-2248+6
      THOMAS JOHN G         862-7119+6
      TIBBS RONALD W        862-4867 3
      TIPTON SHELBY SSGT 862-7209 3
      WRIGHT CARLTON L      862-5107+6
      WRIGHT DONALD L       862-5508 4
      YOST LEON             864-1201 4
27735......................
27828  XXXX                 OO
27902 ERISMAN WM H          862-3827+6
27920  XXXX                 OO
27960 AVANCE JACK           862-2293+6
     *QUALITY FARM PRDCTS862-8235 4
     *QUALITY FARM STORE 862-8235 5
      ROZEMA LOUIS          862-8235
28117 VANMEETEREN A A       862-8416
28135  XXXX                 OO
28175 VANMEETEREN CHAS      862-3470
28201*DUDAS GOLF RANGE       862-8657
28214 HAMAMURA RONALD A     862-8432
28421 BLUME JOHN A          862-0444+6
      HENDERSON LESLIE E 862-3742
      WOOD GRETCHEN         862-0444+6
28474 RIEDMAN FRED          862-3495 3
28479...MURRAYS TRAILER CT
      AGUIRRE ANDRES        862-5177 5
      COOK E J              862-7766+6
      CUMMINS THOS A        864-0224+6
      DUNHAM ELMO A         862-2104+6
      LUNSFORD LUTHER J     862-7756+6
      MOULDEN I H           862-7694
      NEAL KENNETH          862-6813+6
      REA CHAS W            864-0433 4
      SMITH LAURA           862-7757+6
      WATSON LEONARD        862-3697 5
      WILLIS WM S JR        862-5506+6
      WISSERT HAROLD L      864-1481 4
28479......................
28497  XXXX                 OO
28590 CERVANTES FRANK       862-1686
     *  17 BUS   80 RES   26 NEW
```

Target Street	Cross Street	Source
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CENTRAL AVE 1976

CENTRAL AV 92346 HIGHLAND

1575	JUAREZ RODOLFO	864-1137	4
1585	LIZUT ROGER	864-0363	4
6978	PRESTIDGE FRANCES	862-3698	
	PRESTIDGE TRUMAN	862-3698	
7000*	CHURCH JESUS CHRIST	864-1600	+6
7033	XXXX	00	
7036	SCHRADER RICHARD R	862-8013	+6
7058	XXXX	00	
7073	BARENTINE HARLEY	862-3351	
	BARENTINE VICTORIA	862-3351	
7091	XXXX	00	
7113	PENNELL RICHARD	864-1399	4
7120	BROWN C F	862-3817	
7125	WALKER URBAN M	862-8942	
7130	GOETHE DOUGLAS	862-7299	+6
7137	WALKER HELEN E	862-1706	
	WALKER JAS M	862-1706	
7138	WALL THOS O	862-8239	
7149*	CUSTOM CONTRACTORS	862-3522	3

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-	✓	Haines Criss-Cross Directory

CENTRAL AVE 1976

..CENTRAL AV 92346 CONT..

	STAUFFER GEORGE	862-3522 4
7158	LEWIS RICHARD E	862-2968 4
7161	XXXX	00
7173	WEBB ALLEN	862-4315
7176	XXXX	00
7184	SCHAFER MACK	862-2173
7185	GAUGHAN FRANK J	862-8244
7194	BABB JAKE N	862-8075
7208	GILBERT M	862-4997 3
	RICHARDSON H M	862-2022+6
	WILLIS JOHNNY A	862-5668 3
7233	LEWIS R E	862-1164+6
7238	MEARES D C	862-4452
7280	XXXX	00
7394	COFFEE JOHN	862-3056
7446	DIEFFENBACHER R A	862-9588+6
7477	NELSON L B	862-3819
7492	BALDWIN C MARLYN	864-0120 4
7495	MANNING ARTHUR E	862-8157 3
7496	MACKAMUL JOS	862-8034
	MACKAMUL PAULINE	862-8034
7498	COX RICHARD	862-3760+6
7500	XXXX	00
7502	SCHEIDECKER G	862-9607 5
7503	STUMPF CHAS R	862-1039 3
7506	ODAY CARL J	862-3615 3
7518	XXXX	00
7594	XXXX	00
7597	KLINE PAUL	862-8675
7632	BROCK RONALD	862-6131
7633	MONZON RICHARD J	864-1247+6
7635	ELLIS G E	862-9742+6
7648	RICHARDSON L M	862-2334 5
7653	ROBERTSON IDONNA	862-4623
7656	XXXX	00
7667	THIEM ESTHER G	864-0961 5
	THIEM JOHN L	864-0961 5
7678	XXXX	00
7682	MILLER ALBERT J	862-9551
7684	XXXX	00
7687	XXXX	00
7691	WILLIAMS ALBERT	862-7964
7814	ROBLEDO JOSE L SR	862-6715
7848	STANFIELD FRANK	862-3502+6
7858	ROBLES C	862-2910 3
7868	GUTIERREZ ROBERTO	862-5844+6
7888	OLIVE B R	862-1157 5
8082	XXXX	00

* 2 BUS 65 RES 11 NEW

Target Street	Cross Street	Source
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3RD ST 1971

3RD E

3RD E 92346 HIGHLAND

```
26114*STOUT MOBILE CENTER884-7743
26116*CO OP AUTO BODY&PNT888-4398
26175 SORGENTE MICHELE   884-1574
26492*KOZY KORNER        862-9905
26530 WRIGHT DOIE        862-1249
      WRIGHT DOIE B      862-4559
26540*SARGES CAFE        862-9953
26552 ZUMBRUN ARTHUR     862-8241
26580 DOTSON RAYMOND A   884-2900
     *DOTSONS APPLNC RPR 884-2900
     *PARKERS RFRGRTN SV 862-5555
26734 WELCH DUANE PAPPY  862-3983
26754 CROWE RAY          862-5357
26854 WARD DAN           862-4073
27062 JONES JUDITH S     862-0684
      SPITLER IRENE M    862-0684
27114*LAFON EQUIPMENT CO 862-0533
     *LAFON HOUSE WRECKNG862-0533
     *LAFON TREE SERVICE 862-0533
     *LAFONS TREE SERVICE884-3600
27134 YBARRA BEN P       862-8372
27136 JENKINS C B MRS    862-1680
27178 WARD LILLIAN S     862-4032
27236*LEWIS BODY SHOP     862-5342
27380*MARSH EQPMT SALES  862-5522
     *SUPERIOR BACKHOE SV862-3454
27735...HACIENDA MOBILE HM
      BAILEY BENNETT N   862-7075
      BAILEY CAROLE      862-7075
      CLARK CLARENCE R   862-0539
      CROWDER LEROY SSGT 862-4117
      DUGENIA FELICIANO  862-7175
      EELLS ROBT         862-2014
      ELLIS JACK H       862-2392
      GUAJARDO HERMAN    862-0310
     *HACIENDA MOBILE HM 862-4414
      HARRELL DAVID A    862-0666
      HICKS HARVEY A     862-6359
      HILL NANCY         862-0958
      HINDS JOHN J       862-7029
      JUCHEM WM          862-4430
      KNOTTS LARRY S SGT 862-4414
      LENZIE EDW A       862-1684
      LOCKER TOM         862-1200
      LOOMIS HAROLD L JR 862-9118
      MCINTIRE MELVIN J  862-2614
      MILLER EARL H      862-8744
      OSTERHOUT C J      862-7764
      OSTERHOUT ROBT     862-7764
      POORE GERALD       862-0732
      POWELL LARRY       862-3476
      PRICE RICHARD E 20 862-3822
      PROCTOR THURMAN    862-9107
      READ JOHN MSGT     862-6329
      RHEA WM A          862-5183
      SANDERS JOHN J     862-0178
      SHIVELY WM         862-9015
      SITTON WM P        862-3702
      STEWART ELLIS      862-2062
      SWALLOWS JOHN D    862-4119
      TODD ELWIN G JR    862-5015
      VASQUEZ DANL       862-3019
      WRIGHT DONALD L    862-4965
27735.......................
27828*YEAGER E L CNSTRCTN862-2221
27920 AVANCE JACK        862-2293
27960*ROZEMA FARM STORE  862-8235
      ROZEMA LOUIS       862-8235
     *ROZEMA POULTRY FRMS862-8235
28117 VANMEETEREN A A    862-8416
28135 DYKEMA H           862-5610
28175 VANMEETEREN CHAS   862-3470
28201*OUDAS GOLF RANGE   862-8657
28214 HAMAMURA RONALD A  862-8432
28421 HENDERSON LESLIE E 862-3742
28479...MURRAYS TRAILER CT
      CLOYD W L          862-8354
      MOULDEN I H        862-7694
      MURRAY SAML        862-8583
     *MURRAYS TRAILER CRT862-8583
      PATTERSON BELLE    862-0418
      PATTERSON RAY      862-0418
      PEVELER JOHN W     862-9358
      STATON C P         862-9791
      VAUGHN GENEVIEVE   862-0894
      WATSON LEONARD     862-3697
28479.......................
28590 CERVANTES FRANK    862-1686
     *  19 BUS   65 RES
```

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

CENTRAL AVE 1971

CENTRAL AV 92346 HIGHLANDS

6978	PRESTIDGE FRANCES	862-3698
	PRESTIDGE TRUMAN	862-3698
7058	LICHIUS FRANK E	862-8648
7073	BARENTINE HARLEY	862-3351
	BARENTINE VICTORIA	862-3351
7091	ROBINSON DONALD G	862-6453
7112	LEPPER DONALD H	862-2589
7113	ROHWER GENE	862-5439
7120	BROWN C F	862-3817
7125	WALKER URBAN M	862-8942
7137	WALKER HELEN E	862-1706
	WALKER JAS M	862-1706
7138	WALL THOS O	862-8239
7158	LOMBARDI FRANK P	862-3689
7161	STOLZMAN ROSE	862-1918
7166	BRADY GLINDA JOYCE	862-6009
	BRADY WM J	862-6009
7173	WEBB ALLEN	862-4315
7176	CHERINGTON MARGE L	862-9646
7184	SCHAFER MACK	862-2173
7185	GAUGHAN FRANK J	862-8244
7194	BABB JAKE N	862-8075
7208	FRENCH JUDITH A	862-2731
7238	MEARES O C	862-4452
7280	WALKER J H	862-9122
7394	COFFEE JOHN	862-3056
7446	RICHARDSON CLEE	862-1565
7477	NELSON L B	862-3819
7496	MACKAMUL JOS	862-8034
	MACKAMUL PAULINE	862-8034
7500	SIERRA SABINO SSGT	862-3726
7502	ROAN JAS	862-9215
7594	ELLIS V V	862-8765
7597	KLINE PAUL	862-8675
7632	BROCK RONALO	862-6131
7633	LEVERETTE F J	862-3458
7653	ROBERTSON IOONNA	862-4623
7656	INGRAM JERRY	862-4997
7667	MIXON W L	862-2023
7682	MILLER ALBERT J	862-9551
7684	RICHAROSON LUCILLE	862-2334
7687	KIRKENOOLL O B	862-2345
7691	WILLIAMS ALBERT	862-7964
7814	ROBLEOO JOSE L SR	862-6715
7848	ONEIL WM	862-5018
7868	STRIMPLE OON H SGT	862-1151
7888	OLIVE J R JR	862-1157
8082*	AEB THRIFT SHOP	862-6333

* 1 BUS 47 RES

26840 3rd St
26840 3rd St
Highland, CA 92346

Inquiry Number: 6657652.2s
September 13, 2021

EDR Summary Radius Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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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

26840 3RD ST
HIGHLAND, CA 92346

COORDINATES

Latitude (North):	34.1069000 - 34˚ 6' 24.84''
Longitude (West):	117.2186060 - 117˚ 13' 6.98''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	479837.1
UTM Y (Meters):	3773835.8
Elevation:	1163 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
26840 3RD ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	NORTON AIR FORCE BAS		DOD	Same	471, 0.089, South
Reg	USAF NORTON AFB	305 S TIPPECANOE AVE	NPL, SEMS, CORRACTS, RCRA-TSDF, RCRA-SQG, US ENG..	Same	176, 0.033, South
1	JOSE HUIZAR	26875 4TH PL	RCRA NonGen / NLR	Higher	59, 0.011, NE
A2	NATIONAL TECHNICAL S	3505 E THIRD ST	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA San...	Higher	103, 0.020, ESE
A3	WYLE LABS SBO EAST D	3505 E 3RD ST	RCRA-SQG	Higher	103, 0.020, ESE
A4	NATIONAL TECHNICAL S	3505 E THIRD ST	RCRA NonGen / NLR	Higher	103, 0.020, ESE
A5	WYLE LABS EAST TEST	3505 E 3RD ST	CA San Bern. Co. Permit	Higher	103, 0.020, ESE
B6	SANCHEZ AUTOMOTIVE S	26967 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	400, 0.076, NE
B7	S&S MOTORS INC (DBA)	26967 5TH ST	RCRA NonGen / NLR	Higher	400, 0.076, NE
B8	ELITE LAWN & LANDSCA	26975 5TH ST	CA San Bern. Co. Permit	Higher	456, 0.086, ENE
C9	CANDY'S	26698 3RD ST	CA San Bern. Co. Permit	Lower	482, 0.091, West
D10	NORTON AIR FORCE BAS	106TH ST	CA CERS TANKS	Higher	522, 0.099, SE
D11	NORTON AIR FORCE BAS	106TH ST	CA UST	Higher	522, 0.099, SE
D12	MATICH CORPORATION	3231 E 3RD ST	CA AST, CA CERS HAZ WASTE, CA CERS TANKS, CA San...	Higher	530, 0.100, SE
D13	MATICH CORP	3231 E 3RD ST	RCRA NonGen / NLR	Higher	530, 0.100, SE
C14	NOBLE METAL LAB	26672 3RD ST	CA San Bern. Co. Permit	Lower	534, 0.101, West
C15	NOBLE METAL LABS INC	26672 3RD ST	RCRA NonGen / NLR	Lower	534, 0.101, West
C16	NOBLE METAL LAB INC	26672 THIRD ST	RCRA NonGen / NLR	Lower	534, 0.101, West
C17	JC'S AUTO REPAIR	26670 3RD ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Lower	537, 0.102, West
E18	DEYANIRA REQUENES	26880 MOSSWAY ST	RCRA NonGen / NLR	Higher	678, 0.128, North
E19	DEYANIRA REQUENES	26880 MOSSWAY ST	RCRA NonGen / NLR	Higher	678, 0.128, North
F20	MEYER CONSTRUCTORS	26999 5TH ST	CA HIST UST	Higher	726, 0.138, ENE
F21	MAYFLOWER CONTRACT S	26999 5TH ST	CA HIST UST, CA NPDES, CA CIWQS	Higher	726, 0.138, ENE
D22	NORTON AFB LANDFILL	I-10/US 395 FORMER N	CA SWF/LF, CA CERS	Higher	760, 0.144, SE
F23	EJ MEYER	26999 E 5TH STREET	RCRA NonGen / NLR	Higher	795, 0.151, ENE
F24	MAYFLOWER CONTRACT S	26999 E 5TH STREET	RCRA-SQG, FINDS, ECHO	Higher	795, 0.151, ENE
F25	E.J. MEYER COMPANY	26999 E 5TH ST	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	795, 0.151, ENE
E26	CITY OF HIGHLAND-OPE	7935 CENTRAL	CA CERS HAZ WASTE, CA San Bern. Co. Permit, CA...	Higher	862, 0.163, NNE
E27	CITY OF HIGHLAND OPE	7935 CENTRAL AVE	RCRA NonGen / NLR	Higher	862, 0.163, NNE
F28	CSR AIR CONDITIONING	27015 E 5TH ST	RCRA NonGen / NLR	Higher	873, 0.165, ENE
G29	NORTON AIR FORCE BAS	W STREET	CA UST	Higher	948, 0.180, SSE
G30	NORTON AIR FORCE BAS	W STREET	CA CERS TANKS	Higher	948, 0.180, SSE
H31	COUNTY FIRE-HHW PROG	2824 E W ST	CA AST, CA CERS HAZ WASTE, CA MWMP, CA San Bern....	Lower	1042, 0.197, SW
H32	SAN BERNARDINO CTY F	2824 E W ST BLDG 302	RCRA NonGen / NLR	Lower	1042, 0.197, SW
H33	RICHARD SEWELL TRAIN	2824 E W ST BLDG 302	CA AST, CA San Bern. Co. Permit, CA CERS	Lower	1042, 0.197, SW
H34	SBCO FIRE HAZ WASTE	2824 E W ST	CA CERS HAZ WASTE, CA CERS	Lower	1042, 0.197, SW
H35	SAN BERNARDINO COUNT	2824 E W ST	RCRA-SQG, FINDS, ECHO	Lower	1042, 0.197, SW
H36	SAN BERNARDINO COUNT	2824 E W ST	RCRA NonGen / NLR	Lower	1042, 0.197, SW
37	PENSKE	27056 5TH ST	RCRA NonGen / NLR	Higher	1128, 0.214, ENE

MAPPED SITES SUMMARY

Target Property Address:
26840 3RD ST
HIGHLAND, CA 92346

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
38	HOME SAVINGS OF AMER	26674 WARD ST	RCRA-SQG	Lower	1150, 0.218, NW
39	FORMER SKEET RANGE N		UXO	Higher	2059, 0.390, SSE
I40	SAFETY-KLEEN SYSTEMS	7979 PALM AVE #E	CA ENVIROSTOR	Higher	2828, 0.536, East
I41	SAFETY-KLLEEN	7979 PALM AVE.	CA LUST, CA CERS HAZ WASTE, CA SWEEPS UST, CA HIST.	Higher	2828, 0.536, East
I42	SAFETY-KLEEN SYSTEMS	7979 PALM AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Higher	2828, 0.536, East
43	FORMER SKEET RANGE N		UXO	Lower	3431, 0.650, SSW
J44	NORTON AIR FORCE BAS	NORTON AIR FORCE BAS	CA BOND EXP. PLAN	Lower	3463, 0.656, SW
J45	NORTON A F B BLDG 62	D ST	CA LUST, CA Toxic Pits, CA HIST CORTESE	Lower	3463, 0.656, SW
J46	NORTON AIR FORCE BAS	2,208 ACRES;58 MI EA	CA ENVIROSTOR, CA HIST Cal-Sites, CA DEED	Lower	3463, 0.656, SW
K47	AAC SUPPLY DEPOT		CA ENVIROSTOR	Lower	4797, 0.909, WSW
K48	NORTON COMM FAC		CA ENVIROSTOR	Lower	4828, 0.914, WSW
K49	NORTON COMMUNICATION		FUDS	Lower	4829, 0.915, WSW
50	CYPRESS II ELEMENTAR	BASELINE/SOUTH ALLEN	CA ENVIROSTOR, CA SCH	Higher	4890, 0.926, North

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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 NPL site list

NPL: A review of the NPL list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Cerclis ID:: 902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

Federal CERCLIS list

SEMS: A review of the SEMS list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB Site ID: 0902760 EPA Id: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS: A review of the CORRACTS list, as provided by EDR, and dated 03/22/2021 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***
SAFETY-KLEEN SYSTEMS EPA ID:: CAT000613927	***7979 PALM AVENUE***	***E 1/2 - 1 (0.536 mi.)***	***I42***	***19***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: A review of the RCRA-TSDF list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

Federal RCRA generators list

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 03/22/2021 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***
WYLE LABS SBO EAST D EPA ID:: CAR000169649	3505 E 3RD ST	ESE 0 - 1/8 (0.020 mi.)	A3	10
MAYFLOWER CONTRACT S EPA ID:: CAD982433757	***26999 E 5TH STREET***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F24***	***14***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SAN BERNARDINO COUNT EPA ID:: CAR000073072	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H35***	***17***
HOME SAVINGS OF AMER EPA ID:: CAP000043778	26674 WARD ST	NW 1/8 - 1/4 (0.218 mi.)	38	17

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A review of the US ENG CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345 EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

US INST CONTROLS: A review of the US INST CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: A review of the CA ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are 5 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLEEN SYSTEMS Facility Id: 80001784 Status: No Further Action	7979 PALM AVE #E	E 1/2 - 1 (0.536 mi.)	I40	18
CYPRESS II ELEMENTAR Facility Id: 60000047 Status: Inactive - Withdrawn	***BASELINE/SOUTH ALLEN***	***N 1/2 - 1 (0.926 mi.)***	***50***	***21***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS Facility Id: 36970004 Status: Active	***2,208 ACRES;58 MI EA***	***SW 1/2 - 1 (0.656 mi.)***	***J46***	***20***
AAC SUPPLY DEPOT Facility Id: 80000878 Status: Inactive - Needs Evaluation		WSW 1/2 - 1 (0.909 mi.)	K47	20
NORTON COMM FAC Facility Id: 80001185 Status: Inactive - Needs Evaluation		WSW 1/2 - 1 (0.914 mi.)	K48	21

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AFB LANDFILL	***I-10/US 395 FORMER N***	***SE 1/8 - 1/4 (0.144 mi.)***	***D22***	***14***
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021 Facility ID: 36-AA-0312 Operational Status: Closed Regulation Status: Unpermitted				

State and tribal registered storage tank lists

CA UST: A review of the CA UST list, as provided by EDR, has revealed that there are 2 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	106TH ST	SE 0 - 1/8 (0.099 mi.)	D11	12
Database: MILITARY UST SITES, Date of Government Version: 03/08/2021				
NORTON AIR FORCE BAS	W STREET	SSE 1/8 - 1/4 (0.180 mi.)	G29	15
Database: MILITARY UST SITES, Date of Government Version: 03/08/2021				

CA AST: A review of the CA AST list, as provided by EDR, has revealed that there are 4 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***10***
Database: AST, Date of Government Version: 07/06/2016				
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***12***
Database: AST, Date of Government Version: 07/06/2016				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COUNTY FIRE-HHW PROG	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***16***
Database: AST, Date of Government Version: 07/06/2016				
RICHARD SEWELL TRAIN	***2824 E W ST BLDG 302***	***SW 1/8 - 1/4 (0.197 mi.)***	***H33***	***16***
Database: AST, Date of Government Version: 07/06/2016				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA HIST Cal-Sites: A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 CA HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	***2,208 ACRES;58 MI EA***	***SW 1/2 - 1 (0.656 mi.)***	***J46***	***20***

CA Toxic Pits: A review of the CA Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 CA Toxic Pits site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON A F B BLDG 62 Closure Date: / / Task #: 68009 Status: CLOSED	***D ST***	***SW 1/2 - 1 (0.656 mi.)***	***J45***	***20***

CA CERS HAZ WASTE: A review of the CA CERS HAZ WASTE list, as provided by EDR, and dated 01/20/2021 has revealed that there are 8 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***10***
SANCHEZ AUTOMOTIVE S	***26967 5TH ST***	***NE 0 - 1/8 (0.076 mi.)***	***B6***	***11***
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***12***
E.J. MEYER COMPANY	***26999 E 5TH ST***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F25***	***15***
CITY OF HIGHLAND-OPE	***7935 CENTRAL***	***NNE 1/8 - 1/4 (0.163 mi.)***	***E26***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JC'S AUTO REPAIR	***26670 3RD ST***	***W 0 - 1/8 (0.102 mi.)***	***C17***	***13***
COUNTY FIRE-HHW PROG	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***16***
SBCO FIRE HAZ WASTE	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H34***	***17***

Local Lists of Registered Storage Tanks

CA HIST UST: A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MEYER CONSTRUCTORS	26999 5TH ST	ENE 1/8 - 1/4 (0.138 mi.)	F20	13

Facility Id: 00000059681

MAYFLOWER CONTRACT S	***26999 5TH ST***	***ENE 1/8 - 1/4 (0.138 mi.)***	***F21***	***14***

CA CERS TANKS: A review of the CA CERS TANKS list, as provided by EDR, and dated 01/20/2021 has revealed that there are 4 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***10***
NORTON AIR FORCE BAS	106TH ST	SE 0 - 1/8 (0.099 mi.)	D10	11
MATICH CORPORATION	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***12***
NORTON AIR FORCE BAS	W STREET	SSE 1/8 - 1/4 (0.180 mi.)	G30	16

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 14 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSE HUIZAR EPA ID:: CAC003035088	26875 4TH PL	NE 0 - 1/8 (0.011 mi.)	1	10
NATIONAL TECHNICAL S EPA ID:: CAL000398078	3505 E THIRD ST	ESE 0 - 1/8 (0.020 mi.)	A4	10
S&S MOTORS INC (DBA)	26967 5TH ST	NE 0 - 1/8 (0.076 mi.)	B7	11
MATICH CORP EPA ID:: CAL000314877	3231 E 3RD ST	SE 0 - 1/8 (0.100 mi.)	D13	12
DEYANIRA REQUENES EPA ID:: CAC003018813	26880 MOSSWAY ST	N 1/8 - 1/4 (0.128 mi.)	E18	13
DEYANIRA REQUENES EPA ID:: CAC003028051	26880 MOSSWAY ST	N 1/8 - 1/4 (0.128 mi.)	E19	13
EJ MEYER EPA ID:: CAL000258671	26999 E 5TH STREET	ENE 1/8 - 1/4 (0.151 mi.)	F23	14
CITY OF HIGHLAND OPE EPA ID:: CAL000339766	7935 CENTRAL AVE	NNE 1/8 - 1/4 (0.163 mi.)	E27	15
CSR AIR CONDITIONING EPA ID:: CAL000256584	27015 E 5TH ST	ENE 1/8 - 1/4 (0.165 mi.)	F28	15
PENSKE EPA ID:: CAC003041416	27056 5TH ST	ENE 1/8 - 1/4 (0.214 mi.)	37	17

Lower Elevation	Address	Direction / Distance	Map ID	Page
NOBLE METAL LABS INC EPA ID:: CAP000007934	26672 3RD ST	W 0 - 1/8 (0.101 mi.)	C15	12
NOBLE METAL LAB INC	26672 THIRD ST	W 0 - 1/8 (0.101 mi.)	C16	13

EPA ID:: CAP000182386				
SAN BERNARDINO CTY F EPA ID:: CAH111000474	2824 E W ST BLDG 302	SW 1/8 - 1/4 (0.197 mi.)	H32	16
SAN BERNARDINO COUNT EPA ID:: CAL000272339	2824 E W ST	SW 1/8 - 1/4 (0.197 mi.)	H36	17

FUDS: A review of the FUDS list, as provided by EDR, and dated 02/11/2021 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON COMMUNICATION		WSW 1/2 - 1 (0.915 mi.)	K49	21

DOD: A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS		S 0 - 1/8 (0.089 mi.)	0	9

ROD: A review of the ROD list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
USAF NORTON AFB EPA ID:: CA4570024345	***305 S TIPPECANOE AVE***	***S 0 - 1/8 (0.033 mi.)***	***0***	***9***

UXO: A review of the UXO list, as provided by EDR, and dated 12/31/2018 has revealed that there are 2 UXO sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER SKEET RANGE N		SSE 1/4 - 1/2 (0.390 mi.)	39	18

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER SKEET RANGE N		SSW 1/2 - 1 (0.650 mi.)	43	19

CA BOND EXP. PLAN: A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTON AIR FORCE BAS	NORTON AIR FORCE BAS	SW 1/2 - 1 (0.656 mi.)	J44	20

EXECUTIVE SUMMARY

CA HWP: A review of the CA HWP list, as provided by EDR, and dated 02/16/2021 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAFETY-KLLEEN EPA ID: CAT000613927 Cleanup Status: CLOSED	***7979 PALM AVE.***	***E 1/2 - 1 (0.536 mi.)***	***I41***	***18***

CA MWMP: A review of the CA MWMP list, as provided by EDR, and dated 01/29/2021 has revealed that there is 1 CA MWMP site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COUNTY FIRE-HHW PROG Registration Number: 1676	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***16***

CA San Bern. Co. Permit: A review of the CA San Bern. Co. Permit list, as provided by EDR, and dated 05/19/2021 has revealed that there are 12 CA San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL TECHNICAL S Facility Status: ACTIVE Facility Id: FA0016030	***3505 E THIRD ST***	***ESE 0 - 1/8 (0.020 mi.)***	***A2***	***10***
WYLE LABS EAST TEST Facility Status: INACTIVE Facility Id: FA0010413	3505 E 3RD ST	ESE 0 - 1/8 (0.020 mi.)	A5	10
SANCHEZ AUTOMOTIVE S Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0015635 Facility Id: FA0010276 Facility Id: FA0004600	***26967 5TH ST***	***NE 0 - 1/8 (0.076 mi.)***	***B6***	***11***
ELITE LAWN & LANDSCA Facility Status: INACTIVE Facility Id: FA0002894	26975 5TH ST	ENE 0 - 1/8 (0.086 mi.)	B8	11
MATICH CORPORATION Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0010796	***3231 E 3RD ST***	***SE 0 - 1/8 (0.100 mi.)***	***D12***	***12***
E.J. MEYER COMPANY Facility Status: ACTIVE Facility Id: FA0012324	***26999 E 5TH ST***	***ENE 1/8 - 1/4 (0.151 mi.)***	***F25***	***15***
CITY OF HIGHLAND-OPE Facility Status: ACTIVE Facility Id: FA0011950	***7935 CENTRAL***	***NNE 1/8 - 1/4 (0.163 mi.)***	***E26***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CANDY'S	26698 3RD ST	W 0 - 1/8 (0.091 mi.)	C9	11

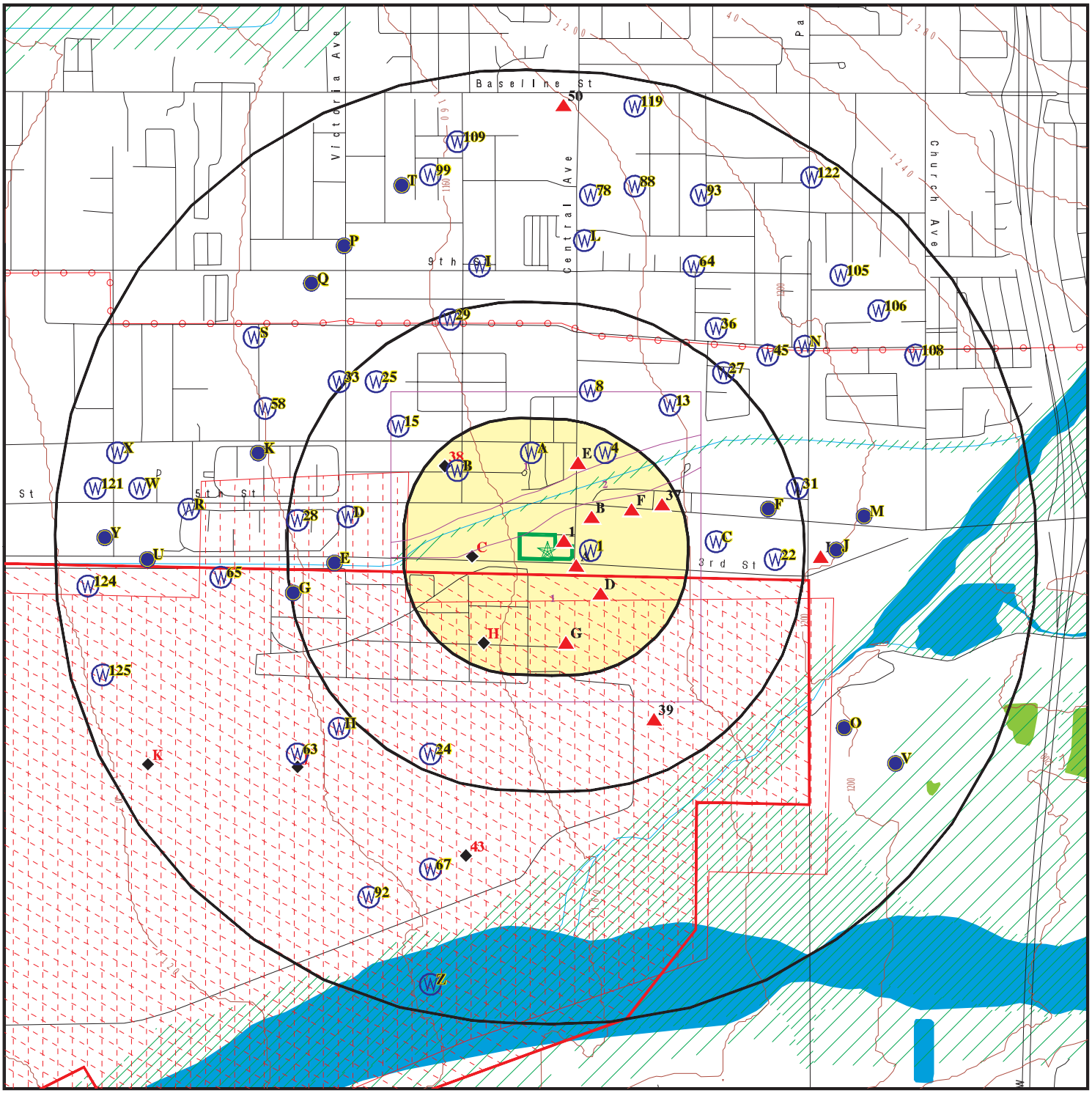
Facility Status: INACTIVE Facility Id: FA0014643				
NOBLE METAL LAB Facility Status: INACTIVE Facility Id: FA0004984	26672 3RD ST	W 0 - 1/8 (0.101 mi.)	C14	12
JC'S AUTO REPAIR Facility Status: ACTIVE Facility Id: FA0004044	***26670 3RD ST***	***W 0 - 1/8 (0.102 mi.)***	***C17***	***13***
COUNTY FIRE-HHW PROG Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0002298	***2824 E W ST***	***SW 1/8 - 1/4 (0.197 mi.)***	***H31***	***16***
RICHARD SEWELL TRAIN Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013474 Facility Id: FA0002351 Facility Id: FA0014075	***2824 E W ST BLDG 302***	***SW 1/8 - 1/4 (0.197 mi.)***	***H33***	***16***

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN BERNARDINO	S106162215	NORTON A F B BLDG 754	7TH ST	92410	CA LUST
SAN BERNARDINO	1003878981	SECCOMBE LAKE STATE REC AREA	7TH ST BETW SERRIA & WATERMAN	92410	SEMS-ARCHIVE
SAN BERNARDINO COUNT	S107537516		ALONG SIDE GRAY ST NEAR 3RD ST		CA CDL
SAN BERNARDINO COUNT	1016139697	CIMA ROAD MINE WASTE SITE	1 MIL W OF INTE. 15 OFF CIMA R		SEMS

OVERVIEW MAP - 6657652.2S



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

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:25 am

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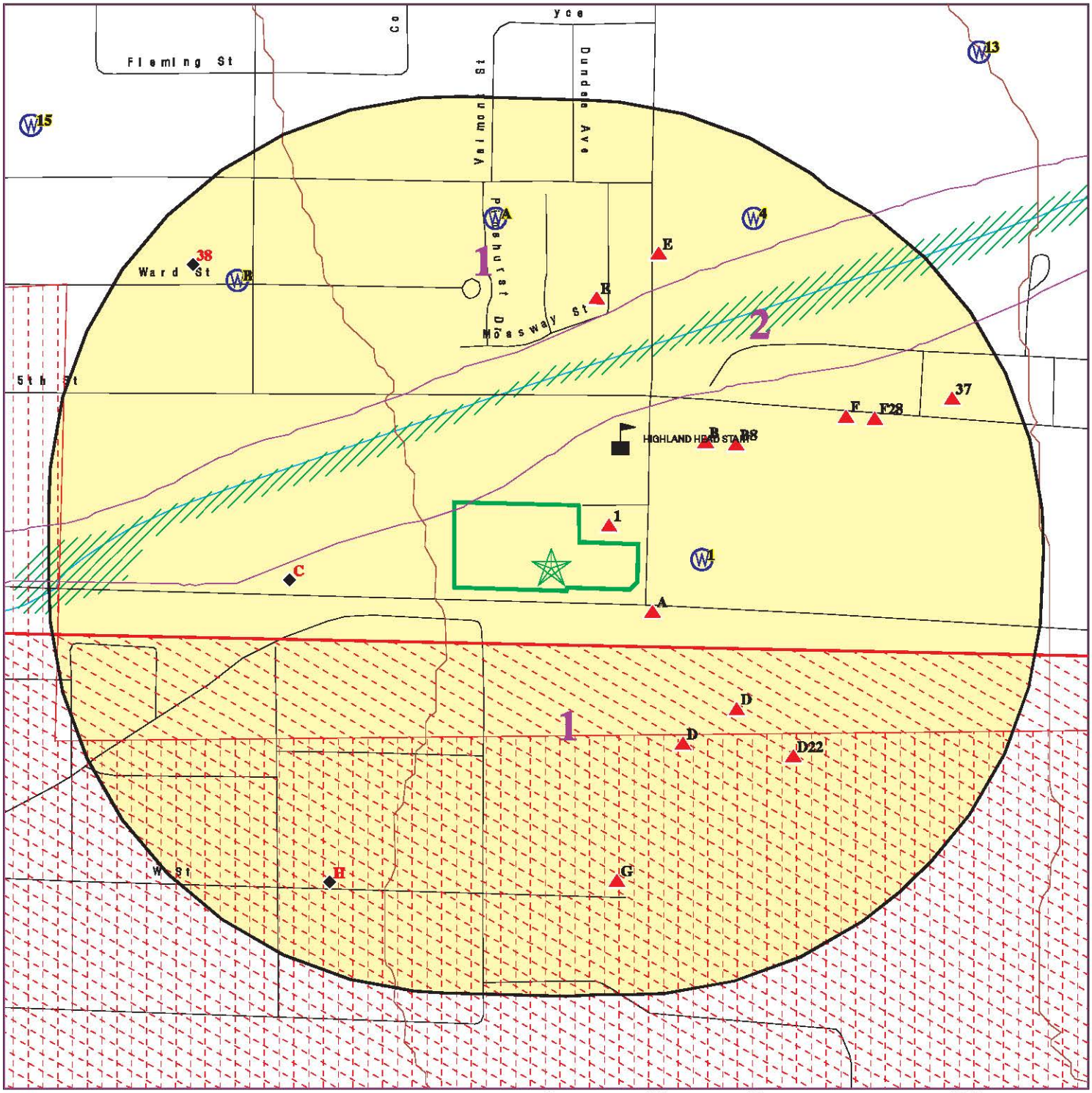
DETAIL MAP - 6657652.2S



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

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ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:27 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		1	0	0	0	NR	1
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		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		1	0	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		1	0	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	3	NR	NR	NR	5
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROLS	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	0	5	NR	5
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	1	0	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	0	0	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA 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
CA UST	0.250		1	1	NR	NR	NR	2
CA AST	0.250		2	2	NR	NR	NR	4
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA 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								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	1	NR	1
CA CERS HAZ WASTE	0.250		4	4	NR	NR	NR	8
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	2	NR	NR	NR	2
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		3	1	NR	NR	NR	4
Local Land Records								
CA LIENS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		6	8	NR	NR	NR	14
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		1	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		1	NR	NR	NR	NR	1
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	1	1	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
CA Cortese	0.500		0	0	0	NR	NR	0
CA 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
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001		0	NR	NR	NR	NR	0
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	0	NR	NR	0
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	1	NR	NR	NR	1
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA San Bern. Co. Permit	0.250		8	4	NR	NR	NR	12
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	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		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	35	27	1	12	0	75

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

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
DOD **Region** **South** **< 1/8** **471 ft.**	**NORTON AIR FORCE BASE (CLOSED)** **NORTON AIR FORCE BASE (CL (County), CA** **Click here for full text details**	**DOD**	**CUSA143166** **N/A**
NPL **Region** **South** **< 1/8** **176 ft.**	**USAF NORTON AFB** **305 S TIPPECANOE AVE** **SAN BERNARDINO, CA 92408** **Click here for full text details**	**NPL** **SEMS** **CORRACTS** **RCRA-TSDF** **RCRA-SQG** **US ENG CONTROLS** **US INST CONTROLS** **ROD** **PADS**	**1000417274** **CA4570024345**

NPL
Cerclis ID: 902760
EPA Id CA4570024345

SEMS
Site ID 0902760
EPA Id CA4570024345

CORRACTS
EPA ID: CA4570024345

RCRA-TSDF
EPA Id CA4570024345

RCRA-SQG
EPA Id CA4570024345

US ENG CONTROLS
EPA ID: CA4570024345
EPA ID: CA4570024345

US INST CONTROLS
EPA ID: CA4570024345

ROD
EPA ID: CA4570024345

PADS
EPAID: CA4570024345

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
1 NE < 1/8 0.011 mi. 59 ft. Relative: Higher	**JOSE HUIZAR 26875 4TH PL HIGHLAND, CA 92346 Click here for full text details RCRA NonGen / NLR** EPA Id CAC003035088	**RCRA NonGen / NLR**	**1025854832 CAC003035088**
A2 ESE < 1/8 0.020 mi. 103 ft. Relative: Higher	**NATIONAL TECHNICAL SYSTEMS 3505 E THIRD ST SAN BERNARDINO, CA 92408 Click here for full text details CA San Bern. Co. Permit** Facility Id FA0016030 Facility Status ACTIVE	**CA AST CA CERS HAZ WASTE CA CERS TANKS CA San Bern. Co. Permit CA CERS**	**S117896923 N/A**
A3 ESE < 1/8 0.020 mi. 103 ft. Relative: Higher	**WYLE LABS SBO EAST DEPT 551 3505 E 3RD ST SAN BERNARDINO, CA 92408 Click here for full text details RCRA-SQG** EPA Id CAR000169649	**RCRA-SQG**	**1009216575 CAR000169649**
A4 ESE < 1/8 0.020 mi. 103 ft. Relative: Higher	**NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIO 3505 E THIRD ST SAN BERNARDINO, CA 92408 Click here for full text details RCRA NonGen / NLR** EPA Id CAL000398078	**RCRA NonGen / NLR**	**1024845186 CAL000398078**
A5 ESE < 1/8 0.020 mi. 103 ft. Relative: Higher	**WYLE LABS EAST TEST SITE DEPT #551 3505 E 3RD ST SAN BERNARDINO, CA 92408 Click here for full text details CA San Bern. Co. Permit** Facility Id FA0010413 Facility Status INACTIVE	**CA San Bern. Co. Permit**	**S108758180 N/A**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
B6 **NE** **< 1/8** **0.076 mi.** **400 ft.** **Relative:** **Higher**	**SANCHEZ AUTOMOTIVE SERVICE** **26967 5TH ST** **HIGHLAND, CA 92346** **Click here for full text details** **CA San Bern. Co. Permit** Facility Id FA0015635 Facility Id FA0010276 Facility Id FA0004600 Facility Status ACTIVE Facility Status INACTIVE	**CA CERS HAZ WASTE** **CA San Bern. Co. Permit** **CA CERS** **CA HWTS**	**S107592134** **N/A**
B7 **NE** **< 1/8** **0.076 mi.** **400 ft.** **Relative:** **Higher**	**S&S MOTORS INC (DBA) S&S INLAND STAR** **26967 5TH ST** **HIGHLAND, CA 92346** **Click here for full text details**	**RCRA NonGen / NLR**	**1026490007** **CAL000405511**
B8 **ENE** **< 1/8** **0.086 mi.** **456 ft.** **Relative:** **Higher**	**ELITE LAWN & LANDSCAPE** **26975 5TH ST** **HIGHLAND, CA 92346** **Click here for full text details** **CA San Bern. Co. Permit** Facility Id FA0002894 Facility Status INACTIVE	**CA San Bern. Co. Permit**	**S106910812** **N/A**
C9 **West** **< 1/8** **0.091 mi.** **482 ft.** **Relative:** **Lower**	**CANDY'S** **26698 3RD ST** **HIGHLAND, CA 92346** **Click here for full text details** **CA San Bern. Co. Permit** Facility Id FA0014643 Facility Status INACTIVE	**CA San Bern. Co. Permit**	**S112142747** **N/A**
D10 **SE** **< 1/8** **0.099 mi.** **522 ft.** **Relative:** **Higher**	**NORTON AIR FORCE BASE - NORTON A F B BLDG 248** **106TH ST** **SAN BERNARDINO, CA 92409** **Click here for full text details**	**CA CERS TANKS**	**S123539074** **N/A**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
D11 SE < 1/8 0.099 mi. 522 ft. Relative: Higher	**NORTON AIR FORCE BASE - NORTON A F B BLDG 248 106TH ST SAN BERNARDINO, CA 92409** Click here for full text details	**CA UST**	**U004267928 N/A**
D12 SE < 1/8 0.100 mi. 530 ft. Relative: Higher	**MATICH CORPORATION 3231 E 3RD ST SAN BERNARDINO, CA 92408** Click here for full text details **CA San Bern. Co. Permit** Facility Id FA0010796 Facility Status ACTIVE Facility Status INACTIVE	**CA AST CA CERS HAZ WASTE CA CERS TANKS CA San Bern. Co. Permit CA CERS**	**S108419380 N/A**
D13 SE < 1/8 0.100 mi. 530 ft. Relative: Higher	**MATICH CORP 3231 E 3RD ST SAN BERNARDINO, CA 92408** Click here for full text details **RCRA NonGen / NLR** EPA Id CAL000314877	**RCRA NonGen / NLR**	**1024815744 CAL000314877**
C14 West < 1/8 0.101 mi. 534 ft. Relative: Lower	**NOBLE METAL LAB 26672 3RD ST HIGHLAND, CA 92346** Click here for full text details **CA San Bern. Co. Permit** Facility Id FA0004984 Facility Status INACTIVE	**CA San Bern. Co. Permit**	**S106911008 N/A**
C15 West < 1/8 0.101 mi. 534 ft. Relative: Lower	**NOBLE METAL LABS INC *D 26672 3RD ST HIGHLAND, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAP000007934	**RCRA NonGen / NLR**	**1025878224 CAP000007934**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
C16 **West** **< 1/8** **0.101 mi.** **534 ft.** **Relative:** **Lower**	**NOBLE METAL LAB INC *D** **26672 THIRD ST** **HIGHLAND, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAP000182386	**RCRA NonGen / NLR**	**1025880480** **CAP000182386**
C17 **West** **< 1/8** **0.102 mi.** **537 ft.** **Relative:** **Lower**	**JC'S AUTO REPAIR** **26670 3RD ST** **HIGHLAND, CA 92346** Click here for full text details **CA San Bern. Co. Permit** Facility Id FA0004044 Facility Status ACTIVE	**CA CERS HAZ WASTE** **CA San Bern. Co. Permit** **CA CERS**	**S105298719** **N/A**
E18 **North** **1/8-1/4** **0.128 mi.** **678 ft.** **Relative:** **Higher**	**DEYANIRA REQUENES** **26880 MOSSWAY ST** **HIGHLAND, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAC003018813	**RCRA NonGen / NLR**	**1025839214** **CAC003018813**
E19 **North** **1/8-1/4** **0.128 mi.** **678 ft.** **Relative:** **Higher**	**DEYANIRA REQUENES** **26880 MOSSWAY ST** **HIGHLAND, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAC003028051	**RCRA NonGen / NLR**	**1025848027** **CAC003028051**
F20 **ENE** **1/8-1/4** **0.138 mi.** **726 ft.** **Relative:** **Higher**	**MEYER CONSTRUCTORS** **26999 5TH ST** **HIGHLAND, CA 92346** Click here for full text details **CA HIST UST** Facility Id 00000059681	**CA HIST UST**	**U001575099** **N/A**

F21
ENE
1/8-1/4
0.138 mi.
726 ft.

Relative:
Higher

MAYFLOWER CONTRACT SERVICES
26999 5TH ST
HIGHLAND, CA 92346

CA HIST UST **S117704863**
CA NPDES **N/A**
CA CIWQS

Click here for full text details

D22
SE
1/8-1/4
0.144 mi.
760 ft.

Relative:
Higher

NORTON AFB LANDFILL
I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408

CA SWF/LF **S105247958**
CA CERS **N/A**

Click here for full text details

CA SWF/LF
Operational Status Closed
Regulation Status Unpermitted
Facility ID 36-AA-0312

F23
ENE
1/8-1/4
0.151 mi.
795 ft.

Relative:
Higher

EJ MEYER
26999 E 5TH STREET
HIGHLAND, CA 92346

RCRA NonGen / NLR **1024804545**
CAL000258671

Click here for full text details

RCRA NonGen / NLR
EPA Id CAL000258671

F24
ENE
1/8-1/4
0.151 mi.
795 ft.

Relative:
Higher

MAYFLOWER CONTRACT SERVICES
26999 E 5TH STREET
HIGHLAND, CA 92346

RCRA-SQG **1000472844**
FINDS **CAD982433757**
ECHO

Click here for full text details

RCRA-SQG
EPA Id CAD982433757

FINDS
Registry ID: 110002810860

ECHO
Registry ID 110002810860

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
F25 ENE 1/8-1/4 0.151 mi. 795 ft. Relative: Higher	**E.J. MEYER COMPANY 26999 E 5TH ST HIGHLAND, CA 92346** Click here for full text details **CA San Bern. Co. Permit** Facility Id FA0012324 Facility Status ACTIVE	**CA CERS HAZ WASTE CA San Bern. Co. Permit CA CERS**	**S109598572 N/A**
E26 NNE 1/8-1/4 0.163 mi. 862 ft. Relative: Higher	**CITY OF HIGHLAND-OPERATIONS YARD 7935 CENTRAL HIGHLAND, CA 92346** Click here for full text details **CA San Bern. Co. Permit** Facility Id FA0011950 Facility Status ACTIVE	**CA CERS HAZ WASTE CA San Bern. Co. Permit CA CERS**	**S109349300 N/A**
E27 NNE 1/8-1/4 0.163 mi. 862 ft. Relative: Higher	**CITY OF HIGHLAND OPERATIONS YARD CERS ID 10053832 7935 CENTRAL AVE HIGHLANDS, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAL000339766	**RCRA NonGen / NLR**	**1024822177 CAL000339766**
F28 ENE 1/8-1/4 0.165 mi. 873 ft. Relative: Higher	**CSR AIR CONDITIONING & HEATING, INC. 27015 E 5TH ST HIGHLAND, CA 92346** Click here for full text details **RCRA NonGen / NLR** EPA Id CAL000256584	**RCRA NonGen / NLR**	**1024804129 CAL000256584**
G29 SSE 1/8-1/4 0.180 mi. 948 ft. Relative: Higher	**NORTON AIR FORCE BASE - NORTON A F B BLDG 228 W STREET SAN BERNARDINO, CA 92409** Click here for full text details	**CA UST**	**U004267914 N/A**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
G30 SSE 1/8-1/4 0.180 mi. 948 ft. Relative: Higher	**NORTON AIR FORCE BASE - NORTON A F B BLDG 228 W STREET SAN BERNARDINO, CA 92409** **Click here for full text details**	**CA CERS TANKS**	**S123539348 N/A**
H31 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**COUNTY FIRE-HHW PROGRAM MAIN STAT 2824 E W ST SAN BERNARDINO, CA 92415** **Click here for full text details** **CA MWMP** Registration Number 1676 **CA San Bern. Co. Permit** Facility Id FA0002298 Facility Status FEE EXEMPT Facility Status INACTIVE	**CA AST CA CERS HAZ WASTE CA MWMP CA San Bern. Co. Permit CA CERS**	**S104762432 N/A**
H32 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**SAN BERNARDINO CTY FD HHW PROGRAM 2824 E W ST BLDG 302 SAN BERNARDINO, CA 92415** **Click here for full text details** **RCRA NonGen / NLR** EPA Id CAH111000474	**RCRA NonGen / NLR**	**1024784477 CAH111000474**
H33 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**RICHARD SEWELL TRAINING CTR 2824 E W ST BLDG 302 SAN BERNARDINO, CA 92408** **Click here for full text details** **CA San Bern. Co. Permit** Facility Id FA0013474 Facility Id FA0002351 Facility Id FA0014075 Facility Status ACTIVE Facility Status INACTIVE	**CA AST CA San Bern. Co. Permit CA CERS**	**S109349303 N/A**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H34 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**SBCO FIRE HAZ WASTE STORGE BIN 2824 E W ST SAN BERNARDINO, CA 92415** **Click here for full text details**	**CA CERS HAZ WASTE CA CERS**	**S123533644 N/A**
H35 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**SAN BERNARDINO COUNTY FIRE DEPT 2824 E W ST SAN BERNARDINO, CA 92408** **Click here for full text details** **RCRA-SQG** EPA Id CAR000073072 **FINDS** Registry ID: 110002936985 **ECHO** Registry ID 110002936985	**RCRA-SQG FINDS ECHO**	**1004675453 CAR000073072**
H36 SW 1/8-1/4 0.197 mi. 1042 ft. Relative: Lower	**SAN BERNARDINO COUNTY FIRE - HHW DIVISION 2824 E W ST SAN BERNARDINO, CA 92415** **Click here for full text details** **RCRA NonGen / NLR** EPA Id CAL000272339	**RCRA NonGen / NLR**	**1024807027 CAL000272339**
37 ENE 1/8-1/4 0.214 mi. 1128 ft. Relative: Higher	**PENSKE 27056 5TH ST HIGHLAND, CA 92346** **Click here for full text details** **RCRA NonGen / NLR** EPA Id CAC003041416	**RCRA NonGen / NLR**	**1025860751 CAC003041416**
38 NW 1/8-1/4 0.218 mi. 1150 ft. Relative: Lower	**HOME SAVINGS OF AMERICA 26674 WARD ST HIGHLAND, CA 92346** **Click here for full text details** **RCRA-SQG** EPA Id CAP000043778	**RCRA-SQG**	**1025878637 CAP000043778**

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
39 SSE 1/4-1/2 0.390 mi. 2059 ft. Relative: Higher	**FORMER SKEET RANGE NO. 2 SAN BERNARDINO, CA Click here for full text details**	**UXO**	**1024717560 N/A**
I40 East 1/2-1 0.536 mi. 2828 ft. Relative: Higher	**SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER 7979 PALM AVE #E HIGHLAND, CA 92346 Click here for full text details CA ENVIROSTOR** Facility Id 80001784 Status No Further Action	**CA ENVIROSTOR**	**S103672465 N/A**
I41 East 1/2-1 0.536 mi. 2828 ft. Relative: Higher	**SAFETY-KLLEEN 7979 PALM AVE. HIGHLAND, CA 92346 Click here for full text details**	**CA LUST CA CERS HAZ WASTE CA SWEEPS UST CA HIST UST CA CERS TANKS CA CHMIRS CA HWP CA NPDES CA WDS CA CIWQS CA CERS**	**1000224427 N/A**

CA LUST
Status Open - Site Assessment
Global Id T0607100369

CA SWEEPS UST
Status A
Comp Number 6282

CA HIST UST
Facility Id 00000006282

CA CHMIRS
OES Incident Number 8-2790

CA HWP
EPA ID CAT000613927
Cleanup Status CLOSED

CA WDS
Facility Id 8 36I002049

SAFETY-KLLEEN (Continued) **1000224427**

Facility Status Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

I42
East
1/2-1
0.536 mi.
2828 ft.

Relative:
Higher

SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
7979 PALM AVENUE
HIGHLAND, CA 92346

Click here for full text details

SEMS-ARCHIVE
CORRACTS
RCRA-TSDF
RCRA-LQG
US FIN ASSUR
2020 COR ACTION
NJ MANIFEST

1015732922
CAT000613927

SEMS-ARCHIVE
Site ID 0900292
EPA Id CAT000613927

CORRACTS
EPA ID: CAT000613927

RCRA-TSDF
EPA Id CAT000613927

RCRA-LQG
EPA Id CAT000613927

US FIN ASSUR
EPA ID CAT000613927

2020 COR ACTION
EPA ID: CAT000613927

NJ MANIFEST
EPA Id CAT000613927

43
SSW
1/2-1
0.650 mi.
3431 ft.

Relative:
Lower

FORMER SKEET RANGE NO. 1

SAN BERNARDINO, CA

Click here for full text details

UXO

1024717552
N/A

J44
SW
1/2-1
0.656 mi.
3463 ft.

Relative:
Lower

NORTON AIR FORCE BASE
NORTON AIR FORCE BASE
SAN BERNARDINO, CA 92409

CA BOND EXP. PLAN

S100833333
N/A

Click here for full text details

J45
SW
1/2-1
0.656 mi.
3463 ft.

Relative:
Lower

NORTON A F B BLDG 620
D ST
SAN BERNARDINO, CA 92409

CA LUST
CA Toxic Pits
CA HIST CORTESE

S100676362
N/A

Click here for full text details

CA LUST
Facility Status Case Closed
Global ID T0607100327

CA Toxic Pits
Status CLOSED
Task # 68009
Closure Date / /

CA HIST CORTESE
Reg Id 083602593T

J46
SW
1/2-1
0.656 mi.
3463 ft.

Relative:
Lower

NORTON AIR FORCE BASE
2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409

CA ENVIROSTOR
CA HIST Cal-Sites
CA DEED

S101272838
N/A

Click here for full text details

CA ENVIROSTOR
Facility Id 36970004
Status Active

CA DEED
Envirostor ID 36970004
Status ACTIVE

K47
WSW
1/2-1
0.909 mi.
4797 ft.

Relative:
Lower

AAC SUPPLY DEPOT

SAN BERNARDINO, CA

CA ENVIROSTOR

S107735784
N/A

Click here for full text details

CA ENVIROSTOR
Facility Id 80000878
Status Inactive - Needs Evaluation

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
K48 WSW 1/2-1 0.914 mi. 4828 ft. Relative: Lower	**NORTON COMM FAC** **SAN BERNARDINO, CA** **Click here for full text details** **CA ENVIROSTOR** Facility Id 80001185 Status Inactive - Needs Evaluation	**CA ENVIROSTOR**	**S107736921 N/A**
K49 WSW 1/2-1 0.915 mi. 4829 ft. Relative: Lower	**NORTON COMMUNICATION FACILITY** **SAN BERNARDINO, CA** **Click here for full text details**	**FUDS**	**1024903849 N/A**
50 North 1/2-1 0.926 mi. 4890 ft. Relative: Higher	**CYPRESS II ELEMENTARY SCHOOL BASELINE/SOUTH ALLEN STREET SAN BERNARDINO, CA 92346** **Click here for full text details** **CA ENVIROSTOR** Facility Id 60000047 Status Inactive - Withdrawn **CA SCH** Facility Id 60000047 Status Inactive - Withdrawn	**CA ENVIROSTOR CA SCH**	**S107736203 N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
CA	BROWNFIELDS	Considered Brownfieds Sites Listing	State Water Resources Control Board	03/22/2021	03/23/2021	06/10/2021
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	12/31/2019	01/20/2021	04/08/2021
CA	CERS	CalEPA Regulated Site Portal Data	California Environmental Protection Agency	01/20/2021	01/20/2021	04/08/2021
CA	CERS HAZ WASTE	CERS HAZ WASTE	CalEPA	01/20/2021	01/20/2021	04/08/2021
CA	CERS TANKS	California Environmental Reporting System (CERS) Tanks	California Environmental Protection Agency	01/20/2021	01/20/2021	04/08/2021
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	12/31/2020	01/20/2021	04/08/2021
CA	CIWQS	California Integrated Water Quality System	State Water Resources Control Board	11/30/2020	12/01/2020	02/12/2021
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	03/22/2021	03/23/2021	06/10/2021
CA	CPS-SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	CUPA LIVERMORE-PLEASANTON	CUPA Facility Listing	Livermore-Pleasanton Fire Department	05/01/2019	05/14/2019	07/17/2019
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	03/02/2021	03/03/2021	05/19/2021
CA	DRYCLEAN AVAQMD	Antelope Valley Air Quality Management District Drycleaner L	Antelope Valley Air Quality Management Distri	02/26/2021	03/02/2021	05/19/2021
CA	DRYCLEAN SOUTH COAST	South Coast Air Quality Management District Drycleaner Listi	South Coast Air Quality Management District	02/23/2021	02/25/2021	05/19/2021
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	03/01/2021	03/04/2021	05/20/2021
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2018	06/16/2020	08/28/2020
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	12/31/2020	01/20/2021	04/09/2021
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	02/08/2021	02/12/2021	05/05/2021
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	11/23/2020	11/23/2020	02/08/2021
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2019	04/15/2020	07/02/2020
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	02/16/2021	02/17/2021	05/10/2021
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	04/05/2021	04/06/2021	06/23/2021
CA	HWTS	Hazardous Waste Tracking System	Department of Toxic Substances Control	04/08/2021	04/09/2021	04/20/2021
CA	ICE	ICE	Department of Toxic Subsances Control	02/16/2021	02/17/2021	05/07/2021
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Qualilty Control Board	03/08/2021	03/09/2021	03/31/2021
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	03/01/2021	03/03/2021	05/20/2021
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001
CA	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/31/2021
CA	MILITARY PRIV SITES	Military Privatized Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	MILITARY UST SITES	Military UST Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	MINES	Mines Site Location Listing	Department of Conservation	03/08/2021	03/09/2021	03/30/2021
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	01/29/2021	03/03/2021	05/20/2021
CA	NON-CASE INFO	Non-Case Information Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	03/12/2021	03/16/2021	06/01/2021
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	02/08/2021	02/09/2021	05/04/2021
CA	OTHER OIL GAS	Other Oil & Gas Projects Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	03/02/2021	03/03/2021	05/20/2021
CA	PFAS	PFAS Contamination Site Location Listing	State Water Resources Control Board	02/24/2021	02/24/2021	05/14/2021
CA	PROC	Certified Processors Database	Department of Conservation	03/09/2021	03/09/2021	03/31/2021
CA	PROD WATER PONDS	Produced Water Ponds Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	PROJECT	Project Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013
CA	SAMPLING POINT	Sampling Point ? Public Sites (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	SAN FRANCISCO AST	Aboveground Storage Tank Site Listing	San Francisco County Department of Public Hea	02/11/2021	02/11/2021	05/05/2021
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victorv	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	02/08/2021	02/09/2021	05/03/2021
CA	SWRCY	Recycler Database	Department of Conservation	03/09/2021	03/09/2021	03/31/2021
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	03/08/2021	03/09/2021	03/31/2021
CA	UIC GEO	Underground Injection Control Sites (GEOTRACKER)	State Water Resource Control Board	03/08/2021	03/09/2021	03/30/2021
CA	UST	Active UST Facilities	SWRCB	03/08/2021	03/09/2021	03/31/2021
CA	UST CLOSURE	Proposed Closure of Underground Storage Tank (UST) Cases	State Water Resources Control Board	03/05/2021	03/09/2021	04/01/2021
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	01/25/2021	01/26/2021	04/13/2021
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	11/19/2019	01/07/2020	03/09/2020
CA	WDR	Waste Discharge Requirements Listing	State Water Resources Control Board	03/09/2021	03/09/2021	03/31/2021
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)	State Water Resources Control Board	03/08/2021	03/09/2021	03/30/2021
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/23/2021	03/25/2021	06/17/2021
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2017	06/22/2020	11/20/2020
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2019	12/01/2020	02/09/2021

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2020	01/13/2021	03/22/2021
US	CORRACTS	Corrective Action Report	EPA	03/22/2021	03/23/2021	05/19/2021
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	11/03/2020	11/17/2020	02/09/2021
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	04/27/2021	05/03/2021	05/19/2021
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	04/04/2021	04/06/2021	06/25/2021
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/22/2021	03/24/2021	06/17/2021
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	02/22/2021	03/30/2021	06/17/2021
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	01/29/2021	02/17/2021	03/22/2021
US	FINDS	Facility Index System/Facility Registry System	EPA	02/03/2021	03/03/2021	04/05/2021
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	02/11/2021	02/17/2021	04/05/2021
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/17/2021	02/17/2021	03/22/2021
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/22/2021	03/24/2021	06/17/2021
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	10/01/2020	12/16/2020	03/12/2021
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/01/2020	12/16/2020	03/12/2021
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/12/2020	12/16/2020	03/12/2021
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/02/2020	12/18/2020	03/12/2021
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/07/2020	12/16/2020	03/12/2021
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/08/2020	05/20/2020	08/12/2020
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	09/30/2020	12/22/2020	03/12/2021
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/09/2020	12/16/2020	03/12/2021
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/01/2020	12/16/2020	03/12/2021
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	04/27/2021	05/03/2021	05/19/2021
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	04/27/2021	05/03/2021	05/19/2021
US	LUCIS	Land Use Control Information System	Department of the Navy	02/09/2021	02/11/2021	03/22/2021
US	MINES MRDS	Mineral Resources Data System	USGS	04/06/2018	10/21/2019	10/24/2019
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	05/27/2021	05/27/2021	06/10/2021
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	03/08/2021	03/11/2021	05/11/2021
US	NPL	National Priority List	EPA	04/27/2021	05/03/2021	05/19/2021
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/19/2020	01/08/2021	03/22/2021
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PCS INACTIVE	Listing of Inactive PCS Permits	EPA	11/05/2014	01/06/2015	05/06/2015
US	PRP	Potentially Responsible Parties	EPA	12/30/2020	01/14/2021	03/05/2021
US	Proposed NPL	Proposed National Priority List Sites	EPA	04/27/2021	05/03/2021	05/19/2021
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/22/2021	03/23/2021	05/19/2021
US	RMP	Risk Management Plans	Environmental Protection Agency	01/22/2021	02/18/2021	05/11/2021
US	ROD	Records Of Decision	EPA	04/27/2021	05/03/2021	05/19/2021
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	04/27/2021	05/03/2021	05/19/2021
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	04/27/2021	05/03/2021	05/19/2021
US	SSTS	Section 7 Tracking Systems	EPA	01/20/2021	01/21/2021	03/22/2021
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2018	08/14/2020	11/04/2020
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/17/2020	09/10/2020
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	03/15/2021	03/16/2021	06/10/2021
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	02/22/2021	02/23/2021	05/19/2021
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	03/22/2021	03/23/2021	06/17/2021
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	12/07/2020	12/09/2020	03/02/2021
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	02/22/2021	02/23/2021	05/19/2021
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	02/01/2021	02/24/2021	05/19/2021
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	12/31/2018	07/02/2020	09/17/2020

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	10/05/2020	02/17/2021	05/10/2021
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2018	04/10/2019	05/16/2019
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	04/29/2020	07/10/2020
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2019	02/11/2021	02/24/2021
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
CA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
CA	State Wetlands	Wetland Inventory	Department of Fish and Wildlife			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

26840 3RD ST
26840 3RD ST
HIGHLAND, CA 92346

TARGET PROPERTY COORDINATES

Latitude (North):	34.1069 - 34˚ 6' 24.84''
Longitude (West):	117.218606 - 117˚ 13' 6.98''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	479837.1
UTM Y (Meters):	3773835.8
Elevation:	1163 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630631 REDLANDS, 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).

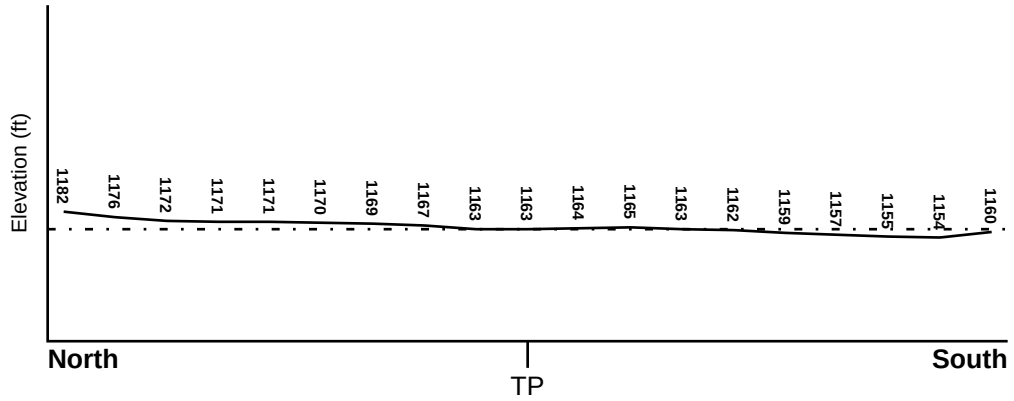
TOPOGRAPHIC INFORMATION

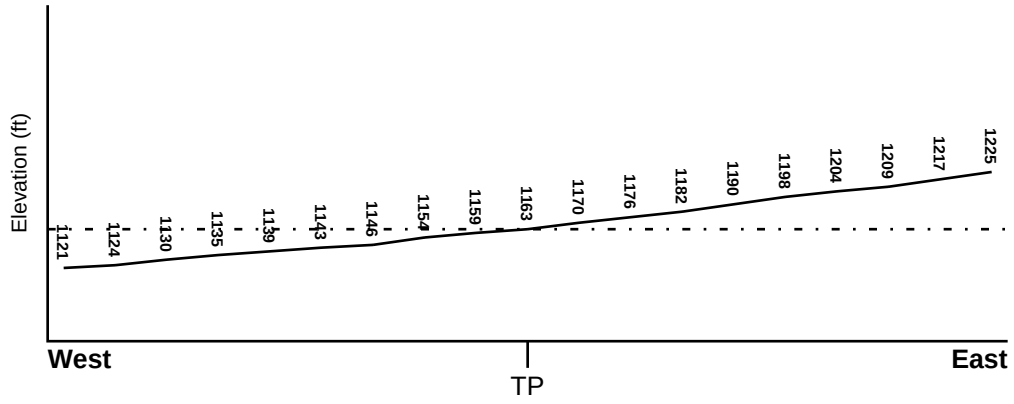
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1163 ft.

0 1/2 1 Miles

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
06071C8702H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8701H	FEMA FIRM Flood data
06071C8703H	FEMA FIRM Flood data
06071C8704H	FEMA FIRM 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
Not Reported		

* ©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

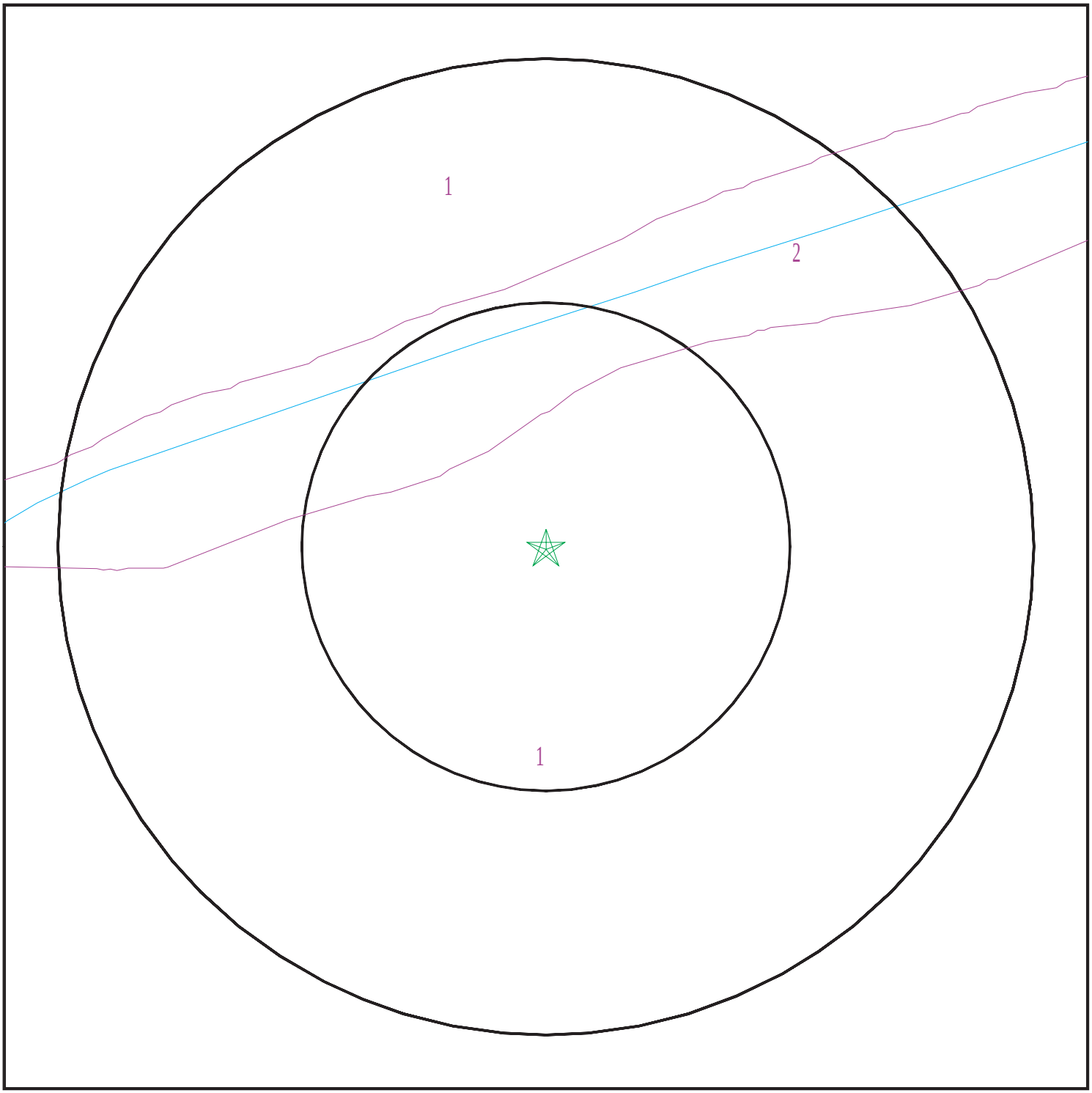
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 6657652.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	26840 3rd St	CLIENT:	Hazard Management Consulting
ADDRESS:	26840 3rd St Highland CA 92346	CONTACT:	Troy Taylor
		INQUIRY #:	6657652.2s
LAT/LONG:	34.1069 / 117.218606	DATE:	September 13, 2021 4:28 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: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively 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	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: FLUVENTS

Soil Surface Texture: gravelly sand

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: Partially hydric

Corrosion Potential - Uncoated Steel: High

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	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	9 inches	29 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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.

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
1	USGS40000141173	0 - 1/8 Mile East
A2	USGS40000141260	1/8 - 1/4 Mile North
A3	USGS40000141261	1/8 - 1/4 Mile NNW
4	USGS40000141259	1/8 - 1/4 Mile NNE
B5	USGS40000141241	1/4 - 1/2 Mile NW
B6	USGS40000141242	1/4 - 1/2 Mile NW
C7	USGS40000141172	1/4 - 1/2 Mile East
8	USGS40000141308	1/4 - 1/2 Mile NNE
C9	USGS40000141197	1/4 - 1/2 Mile East
C10	USGS40000141171	1/4 - 1/2 Mile East
D11	USGS40000141203	1/4 - 1/2 Mile WNW
D12	USGS40000141204	1/4 - 1/2 Mile WNW
D14	USGS40000141174	1/4 - 1/2 Mile West
15	USGS40000141286	1/4 - 1/2 Mile NW
E17	USGS40000141142	1/4 - 1/2 Mile West
F18	USGS40000141215	1/4 - 1/2 Mile ENE
D19	USGS40000141213	1/4 - 1/2 Mile WNW
D20	USGS40000141216	1/4 - 1/2 Mile WNW
22	USGS40000141161	1/4 - 1/2 Mile East
25	USGS40000141312	1/2 - 1 Mile NW
27	USGS40000141317	1/2 - 1 Mile NE
29	USGS40000141344	1/2 - 1 Mile NNW
G30	USGS40000141131	1/2 - 1 Mile West
31	USGS40000141222	1/2 - 1 Mile ENE
H32	USGS40000141065	1/2 - 1 Mile SW
33	USGS40000141313	1/2 - 1 Mile NW
I35	USGS40000141361	1/2 - 1 Mile NNW
36	USGS40000141336	1/2 - 1 Mile NE
H37	USGS40000141057	1/2 - 1 Mile SW
J38	USGS40000141169	1/2 - 1 Mile East
J39	USGS40000141170	1/2 - 1 Mile East
J40	USGS40000141160	1/2 - 1 Mile East
J41	USGS40000141185	1/2 - 1 Mile East
45	USGS40000141325	1/2 - 1 Mile NE
K46	USGS40000141249	1/2 - 1 Mile WNW
K48	USGS40000141271	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I49	USGS40000141388	1/2 - 1 Mile NNW
58	USGS40000141299	1/2 - 1 Mile WNW
M60	USGS40000141202	1/2 - 1 Mile East
N62	USGS40000141321	1/2 - 1 Mile NE
64	USGS40000141379	1/2 - 1 Mile NNE
65	USGS40000141143	1/2 - 1 Mile West
N68	USGS40000141335	1/2 - 1 Mile NE
O69	USGS40000141060	1/2 - 1 Mile ESE
P71	USGS40000141383	1/2 - 1 Mile NNW
R74	USGS40000141217	1/2 - 1 Mile West
S75	USGS40000141330	1/2 - 1 Mile NW
Q77	USGS40000141374	1/2 - 1 Mile NW
78	USGS40000141413	1/2 - 1 Mile North
R81	USGS40000141205	1/2 - 1 Mile West
R82	USGS40000141206	1/2 - 1 Mile West
S84	USGS40000141331	1/2 - 1 Mile NW
P87	USGS40000141389	1/2 - 1 Mile NW
88	USGS40000141421	1/2 - 1 Mile NNE
U90	USGS40000141151	1/2 - 1 Mile West
92	USGS40000140972	1/2 - 1 Mile SSW
93	USGS40000141412	1/2 - 1 Mile NNE
T97	USGS40000141422	1/2 - 1 Mile NNW
T98	USGS40000141423	1/2 - 1 Mile NNW
W100	USGS40000141223	1/2 - 1 Mile West
T103	USGS40000141427	1/2 - 1 Mile NNW
T104	USGS40000141428	1/2 - 1 Mile NNW
106	USGS40000141347	1/2 - 1 Mile NE
108	USGS40000141324	1/2 - 1 Mile ENE
109	USGS40000141450	1/2 - 1 Mile NNW
V110	USGS40000141040	1/2 - 1 Mile ESE
W111	USGS40000141224	1/2 - 1 Mile West
X112	USGS40000141262	1/2 - 1 Mile WNW
X113	USGS40000141263	1/2 - 1 Mile WNW
Y115	USGS40000141186	1/2 - 1 Mile West
Y116	USGS40000141198	1/2 - 1 Mile West
119	USGS40000141488	1/2 - 1 Mile North
X120	USGS40000141264	1/2 - 1 Mile WNW
121	USGS40000141225	1/2 - 1 Mile West
Y123	USGS40000141187	1/2 - 1 Mile West
124	USGS40000141132	1/2 - 1 Mile West
125	USGS40000141088	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

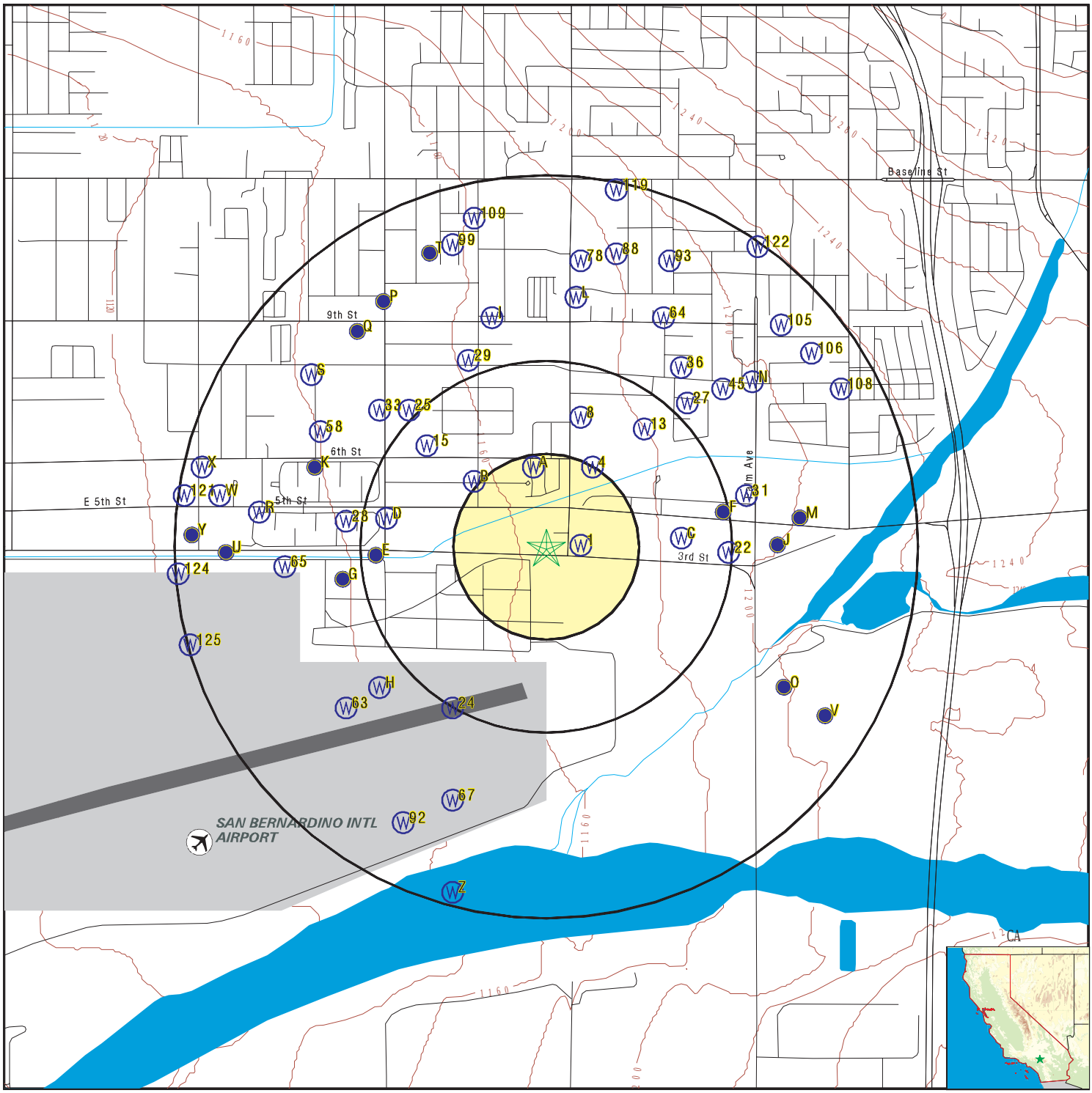
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
13	CADWR0000003800	1/4 - 1/2 Mile NE
E16	CADDW0000007406	1/4 - 1/2 Mile West
E21	CADWR9000006839	1/4 - 1/2 Mile West
F23	CADWR0000036115	1/4 - 1/2 Mile East
24	CADWR0000013479	1/2 - 1 Mile SSW
G26	CADDW0000010240	1/2 - 1 Mile West
28	CADWR0000034942	1/2 - 1 Mile West
G34	809	1/2 - 1 Mile West
J42	CAUSGSN00004484	1/2 - 1 Mile East
J43	CAUSGSN00016638	1/2 - 1 Mile East
J44	CAUSGSN00016039	1/2 - 1 Mile East
J47	CADDW0000010936	1/2 - 1 Mile East
L50	803	1/2 - 1 Mile North
L51	802	1/2 - 1 Mile North
L52	804	1/2 - 1 Mile North
L53	807	1/2 - 1 Mile North
L54	805	1/2 - 1 Mile North
L55	CADDW0000006680	1/2 - 1 Mile North
L56	CADDW0000014380	1/2 - 1 Mile North
L57	CADDW0000010935	1/2 - 1 Mile North
M59	CAUSGSN00011117	1/2 - 1 Mile East
K61	CADDW0000009422	1/2 - 1 Mile WNW
63	CADWR0000011121	1/2 - 1 Mile SW
O66	CADWR9000006810	1/2 - 1 Mile ESE
67	CADWR0000000216	1/2 - 1 Mile SSW
O70	CAUSGSN00005706	1/2 - 1 Mile ESE
O72	CADDW0000006489	1/2 - 1 Mile ESE
Q73	CAUSGSN00018452	1/2 - 1 Mile NW
O76	CADWR0000030199	1/2 - 1 Mile ESE
Q79	CADWR0000034657	1/2 - 1 Mile NW
Q80	CADWR0000018282	1/2 - 1 Mile NW
P83	CADDW0000004370	1/2 - 1 Mile NW
P85	CAUSGS000000252	1/2 - 1 Mile NW
P86	CAUSGSN00008670	1/2 - 1 Mile NW
T89	CADDW0000010401	1/2 - 1 Mile NNW
T91	CADDW0000001678	1/2 - 1 Mile NNW
T94	CAUSGSN00000156	1/2 - 1 Mile NNW
T95	CAUSGSN00006877	1/2 - 1 Mile NNW
V96	CADWR0000035024	1/2 - 1 Mile ESE
99	CADWR0000024907	1/2 - 1 Mile NNW
T101	CAUSGSN00012373	1/2 - 1 Mile NNW
T102	CAUSGSN00017831	1/2 - 1 Mile NNW
105	798	1/2 - 1 Mile NE
U107	808	1/2 - 1 Mile West
Y114	CADWR9000006841	1/2 - 1 Mile West
Z117	CADWR0000007515	1/2 - 1 Mile SSW
Z118	CADWR0000007516	1/2 - 1 Mile SSW
122	797	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 6657652.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: 26840 3rd St	CLIENT: Hazard Management Consulting
ADDRESS: 26840 3rd St Highland CA 92346	CONTACT: Troy Taylor
LAT/LONG: 34.1069 / 117.218606	INQUIRY #: 6657652.2s
	DATE: September 13, 2021 4:28 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
1 **East** **0 - 1/8 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141173**
A2 **North** **1/8 - 1/4 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141260**
A3 **NNW** **1/8 - 1/4 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141261**
4 **NNE** **1/8 - 1/4 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141259**
B5 **NW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141241**
B6 **NW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141242**
C7 **East** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141172**
8 **NNE** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141308**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
C9 **East** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141197**
C10 **East** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141171**
D11 **WNW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141203**
D12 **WNW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141204**
13 **NE** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADWR0000003800**
D14 **West** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141174**
15 **NW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141286**
E16 **West** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000007406**
E17 **West** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141142**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
F18 **ENE** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141215**
D19 **WNW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141213**
D20 **WNW** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141216**
E21 **West** **1/4 - 1/2 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR9000006839**
22 **East** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141161**
F23 **East** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADWR0000036115**
24 **SSW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000013479**
25 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141312**
G26 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000010240**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
27 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141317**
28 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000034942**
29 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141344**
G30 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141131**
31 **ENE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141222**
H32 **SW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141065**
33 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141313**
G34 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**809**
I35 **NNW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141361**

Map ID Direction Distance Elevation		Database	EDR ID Number
36 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141336**
H37 **SW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141057**
J38 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141169**
J39 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141170**
J40 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141160**
J41 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141185**
J42 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CAUSGSN00004484**
J43 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CAUSGSN00016638**
J44 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CAUSGSN00016039**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
45 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141325**
K46 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141249**
J47 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADDW0000010936**
K48 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141271**
I49 **NNW** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141388**
L50 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**803**
L51 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**802**
L52 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**804**
L53 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**807**

Map ID Direction Distance Elevation		Database	EDR ID Number
L54 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**805**
L55 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADDW0000006680**
L56 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADDW0000014380**
L57 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADDW0000010935**
58 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141299**
M59 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CAUSGSN00011117**
M60 **East** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141202**
K61 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000009422**
N62 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141321**

Map ID Direction Distance Elevation		Database	EDR ID Number
63 **SW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000011121**
64 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141379**
65 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141143**
O66 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADWR9000006810**
67 **SSW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000000216**
N68 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141335**
O69 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141060**
O70 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CAUSGSN00005706**
P71 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141383**

Map ID Direction Distance Elevation		Database	EDR ID Number
O72 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADDW0000006489**
Q73 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00018452**
R74 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141217**
S75 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141330**
O76 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADWR0000030199**
Q77 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141374**
78 **North** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141413**
Q79 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000034657**
Q80 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000018282**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
R81 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141205**
R82 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141206**
P83 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000004370**
S84 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141331**
P85 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGS000000252**
P86 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00008670**
P87 **NW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141389**
88 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141421**
T89 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000010401**

Map ID Direction Distance Elevation		Database	EDR ID Number
U90 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141151**
T91 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADDW0000001678**
92 **SSW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000140972**
93 **NNE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141412**
T94 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00000156**
T95 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00006877**
V96 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**CADWR0000035024**
T97 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141422**
T98 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141423**

Map ID Direction Distance Elevation		Database	EDR ID Number
99 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR0000024907**
W100 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141223**
T101 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00012373**
T102 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CAUSGSN00017831**
T103 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141427**
T104 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141428**
105 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**CA WELLS**	**798**
106 **NE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141347**
U107 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**808**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
108 **ENE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141324**
109 **NNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141450**
V110 **ESE** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FED USGS**	**USGS40000141040**
W111 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141224**
X112 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141262**
X113 **WNW** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141263**
Y114 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADWR9000006841**
Y115 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141186**
Y116 **West** **1/2 - 1 Mile** **Lower**	Click here for full text details	**FED USGS**	**USGS40000141198**

Map ID Direction Distance Elevation		Database	EDR ID Number
Z117 SSW 1/2 - 1 Mile Lower	Click here for full text details	**CA WELLS**	**CADWR0000007515**
Z118 SSW 1/2 - 1 Mile Lower	Click here for full text details	**CA WELLS**	**CADWR0000007516**
119 North 1/2 - 1 Mile Higher	Click here for full text details	**FED USGS**	**USGS40000141488**
X120 WNW 1/2 - 1 Mile Lower	Click here for full text details	**FED USGS**	**USGS40000141264**
121 West 1/2 - 1 Mile Lower	Click here for full text details	**FED USGS**	**USGS40000141225**
122 NE 1/2 - 1 Mile Higher	Click here for full text details	**CA WELLS**	**797**
Y123 West 1/2 - 1 Mile Lower	Click here for full text details	**FED USGS**	**USGS40000141187**
124 West 1/2 - 1 Mile Lower	Click here for full text details	**FED USGS**	**USGS40000141132**
125 WSW 1/2 - 1 Mile Lower	Click here for full text details	**FED USGS**	**USGS40000141088**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92346	17	0

Federal EPA Radon Zone for SAN BERNARDINO 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 Zip Code: 92346

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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.

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 C

HEI
Corporation

1805 Peninsula Pl.
Costa Mesa, CA 92627

c 714.875.1362

chayden@heicorporation.com

August 12, 2020

Mr. Brad Kaplan
Descansando Properties
PO Box 4792
Covina, CA 91723

Re: Phase 1 Environmental Site Assessment
Eight Parcels of Land
Northwest Corner of 3rd Street and Central Avenue
Highland, California

Dear Mr. Kaplan:

Enclosed is the Environmental Site Assessment report on the eight parcels of land located at the northwest corner of 3rd Street and Central Avenue in the City of Highland in San Bernardino County, California. All of the agencies responded to our requests for information. Information obtained in the process of completing this assessment did not reveal the presence of recognized environmental conditions.

HEI Corporation appreciates this opportunity to be of service to you and to Descansando Properties. If you have any questions regarding this report, please contact me at 714-875-1362 or at chayden@heicorporation.com.

Sincerely,

Christopher M. Hayden
President

PHASE 1
ENVIRONMENTAL SITE
ASSESSMENT

Eight Parcels of Land
Northwest Corner of 3rd Street and Central Avenue
Highland, California

August 2020

Prepared for

Mr. Brad Kaplan
Descansando Properties

Prepared by

HEI Corporation
1805 Peninsula Place
Costa Mesa, CA 92627
714-875-1362

Project 20-4474

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PROFESSIONAL CERTIFICATION

This Phase 1 Environmental Site Assessment (ESA) was conducted consistent with generally accepted environmental consulting practices within the limitations included as Appendix A. The site visits and records reviews were performed by Chris Hayden, EP, consistent with the proposal submitted to Descansando Properties (Client). The information contained in this ESA was obtained from personal inspection, from sources deemed to be reliable, and from various government agencies.

PHASE 1
ENVIRONMENTAL SITE
ASSESSMENT

Eight Parcels of Land
Northwest Corner of 3rd Street and Central Avenue
Highland, California

Project 20-4474

I declare that, to the best of my professional knowledge and belief, I meet the definition of **Environmental Professional** (EP) as defined in Section 40 C.F.R. § 312.10(b).

I have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in Section 40 C.F.R. § 312.10(b).

Christopher M. Hayden
Environmental Professional

1 SUMMARY

This ESA was performed on the eight parcels of land located at the northwest corner of 3rd Street and Central Avenue in the City of Highland in San Bernardino County, California (hereinafter collectively referred to as the "Subject Property").

After inspecting the Subject Property; reviewing its past uses; observing surrounding properties; searching through the Federal Environmental Protection Agency, State of California, San Bernardino County and City of Highland records, and questioning individuals for information regarding the current and past uses of the Subject Property, it can be concluded that there is no evidence of "recognized environmental conditions", as defined by the ASTM, in connection with the Subject Property. No further action is required at this time.

2 INTRODUCTION

2.1 Purpose

The purpose of this Environmental Site Assessment is to identify "recognized environmental conditions" in connection with the Subject Property. The ASTM Standard Practice for Environmental Site Assessments E 1527-13 defines "recognized environmental condition" as "the presence or likely presence of any hazardous substances or petroleum products in, on or at a property: (1) due to any release to the environmental; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

2.2 Scope of Work

As agreed to between HEI Corporation and Descansando Properties, the scope of work for this ESA included the following:

- Site Inspection
- Surrounding Property Observation
- Interviews With Individuals Having Knowledge of the Operations on the Subject Property
- Inspection of Owner/Operator's Books and Records
- Inspection of City or County Building Permits
- Inspection of City or County Fire Department Records
- Inspection of County Health Department Files
- Inspection of County Public Works Files
- State and Federal Regulatory Agency Database Search For Posted Properties Within An ASTM Designated Radius of the Subject Property
- Evaluate the Likelihood of Vapor Encroachment Onto the Subject Property or Vapor Intrusion Into Structures on the Subject Property

- Inspection of Historical Aerial Photographs, Sanborn Map Company Maps and/or Archive Cross Directories

- Preparation and Presentation of One pdf Report

2.3 Limitations and Exceptions of Assessments

This ESA is based upon the information available from a variety of sources and on the inspection of the Subject Property. The ESA was performed in accordance with industry standards and using appropriate methods. It is intended to allow a party to make an informed decision regarding the Subject Property.

HEI Corporation is not responsible or liable for the accuracy of the information provided by others. This ESA is not a guaranty that there is no subsurface contamination, nor can it be warranted that those areas of environmental concern herein noted are the only areas of potential contamination at the Subject Property.

There was no sampling or testing for the possible presence or absence of, nor is any definitive statement made in this ESA regarding the possible presence or absence of any of the following:

1) Asbestos Containing Materials

2) Radon

3) Lead Based Paints

4) Lead in the Drinking Water

2.4 Limiting Conditions

There were no limiting conditions with regard to the ability of HEI Corporation to conduct the property inspection portion of this ESA. Access was made available to all parts of the Subject Property.

2.5 Previous Environmental Site Assessments/Investigations

Neither the Client nor HEI is aware of any previously conducted environmental site assessments or investigations on the Subject Property.

2.6 Data Gaps

Data gaps occur in three (3) areas in this report. In the past uses section, the Highland City Clerk was able to provide and Building & Safety Division documents for only two of the parcels for which there was an address. Also in the past uses section, there are gaps of more than 10 years in the aerial

photographs available from NETR Online. In the records search section, the files from the San Bernardino County Fire Department, if any exist, were not requested. The SBCFD can take up to three (3) weeks to respond and to arrange for an inspection of files, and time is a factor. These data gaps did not impair the ability of HEI Corporation to form an opinion or arrive at a conclusion as to the environmental condition of the Subject Property.

3 SUBJECT PROPERTY DESCRIPTION AND SITE USE HISTORY

3.1 Site and Improvement Description

The Subject Property consists of eight more or less rectangularly shaped parcels of land which total approximately 136,778 square feet (3.14 acres). It is located at the northwest corner of 3rd Street and Central Avenue. 5th Street is to the north. It is located to the east of Victoria Avenue and to the west of Alabama Street. Base Line Street is to the north, Palm Avenue is to the east and San Bernardino Avenue is to the south. It is located to the east of the Martin Matich Freeway (State Highway 210) and to the north of the Christopher Columbus Transcontinental Highway (Interstate 10). It is located in the County of San Bernardino. The assessor's parcel numbers are 1192-561-11 (a 1.10 acre parcel with no address), 1192-561-15 (a 0.69 acre parcel at 26816 3rd Street), 1192-561-16 (a 0.26 acre parcel with no address), 1192-561-17 (a 0.26 acre parcel at 26840 3rd Street), 1192-561-18 (a 0.26 acre parcel at 26854 3rd Street), 1192-561-19 (a 0.34 acre parcel with no address), 1192-561-20 (a 0.11 acre parcel at 26892 3rd Street) and 1192-561-21 (a 0.12 acre parcel at 8082 Central Avenue).

The Subject Property is relatively flat, as is the surrounding area. The elevation is approximately 1,165 feet above sea level and slopes slightly to the west-southwest. City Creek is proximal to the northwest and the Santa Ana River is to the south. The San Bernardino Mountains are to the north. The soil beneath the Subject Property consists of alluvium, comprised of clay, silt, sand and gravel. Information was obtained regarding the depth to groundwater was sought on the California State Water Resources Control Board's GeoTracker database. A report was found for a spills, leaks, investigations and cleanup (SLIC) site 0.05 miles to the south on the former Norton Air Force Base. The report, dated April 2018 and titled Operations, Maintenance, and Monitoring 2017 Annual Report, was prepared by CH2M for the Air Force Civil Engineering Center. This report states that the depth to groundwater in the Norton Air Force Base impacted area ranged from 167.94 to 208.98 feet below ground surface. The direction of groundwater flow was shown in this report to be to the southwest.

Structure There are two structures on the Subject Property. In the southwest corner of the Subject Property, at 26816 3rd Street, is a mobile office used by Bartlett Motors. In the western portion of the site is a storage building which is of wood panel construction. The roof is flat and the slab is on grade.

Parking and Landscaping There are no paved parking areas on the Subject Property. There is no landscaping on the parcel. Plants consisted of weedy trees and weedy groundcover. The plants were in good condition, and no signs of stressed vegetation was observed. No stained significantly soil was observed.

Utilities The utility services to the properties in the area of the Subject Property are provided by a variety of vendors. Gas is provided by Southern California Gas Corp.; electricity by Southern California Edison; water and sewage treatment by the East Valley Water District; and trash removal by private vendors such as Burrtec Waste Services.

3.2 Subject Property - Use History

The Subject Property consists of eight parcels of land. Assessor's parcel number 1192-561-11, a 1.10 acre parcel in the northwest portion of the Subject Property is used for vehicle storage and for replacement parts by a Volvo dealer. In the southwestern portion of the Subject Property, at 26816 3rd Street, is Bartlett Motors, a used car sales lot. The balance of the Subject Property consists of cleared and undeveloped parcels of land.

3.2.1 Subject Property - Past Uses

Past uses for the Subject Property were determined by examining aerial photographs dating back to 1938 obtained from NETR Online and by obtaining documents fro the City of Highland City Clerk's office. No Sanborn Map Company maps were found for the area of the Subject Property on the City of Los Angeles Public Library's online database.

The **1938** aerial photograph showed the Subject Property to be undeveloped, with no evidence of activity observed. The **1959** aerial photograph showed smaller structures in the eastern portion of the Subject Property that appeared to be residences, garages and storage buildings. The balance of the Subject Property was shown to be undeveloped. The **1968** aerial photograph showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel may have included a mobile office and a storage building. In the central and eastern portions of the Subject Property were what appeared to be residences, garages and storage buildings. The **1980** aerial photograph showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel had been removed and the area was cleared. Smaller structures that appeared to be residences, garages and storage buildings and building foundation were observed on two of the central parcels. One small structure was shown in the eastern portion of the Subject Property. The **1994** aerial photograph showed a mobile office and a vehicle sales or storage lot in the southwestern portion of the Subject Property. The northwestern parcel was shown to be undeveloped, and it appeared that a few vehicles were scattered about on this parcel. On the 26854 3rd Street and 26892 3rd Street/8082 Central Avenue parcels were what appeared to be residences, garages and storage buildings. The **2005** aerial photograph a mobile office, a storage building and a vehicle sales or storage lot in the southwestern portion of the Subject Property. A storage building and a vehicle storage lot were observed in the northwestern parcel. The 26854 3rd Street parcel was shown to have been cleared of structures. The 26892 3rd Street/8082 Central Avenue parcels were shown to be developed with what appeared to be residences, garages and storage buildings. The remaining parcels appeared to be undeveloped. The **2016** aerial photograph a mobile office, a storage building and a vehicle sales or storage lot in the southwestern portion of the Subject Property. A storage building and a vehicle storage lot were observed in the northwestern parcel. The remaining parcels were shown to be cleared and undeveloped.

Permit records were requested from the Clerk's office at the City of Highland for all of the properties for which the Property Profiles included addresses, including 26840 3rd Street, 26854 3rd Street, 26892 3rd Street and 8082 Central Avenue. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family residence at 26854 3rd Street. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family dwelling, out buildings and a pole sign at 26892 3rd Street. No addition documents were provided.

3.3 Adjoining Properties - Use History

A number of properties adjoin the Subject Property.

North Adjoining area to the north of the Subject Property are four properties. In the western portion of the adjoining area to the north is an undeveloped parcel of land. At 26855 4th Place is what appeared to be a vacant warehouse property; at 26875 4th Place is a single family residence; and, at 8058 Central Avenue, is a single family residence.

East Adjoining to the east, across Central Avenue, is an equipment storage yard which is used by E. J. Meyer Co. located at 26999 5th Street.

South Adjoining to the south, across 3rd Street, is parking lot by the San Bernardino International Airport and a graded, undeveloped parcel of land.

West The adjoining area to the west was shown to be a cleared, graded and undeveloped parcel of land.

Nothing was observed on any of the adjoining properties that appeared to be of environmental concern to the Subject Property.

3.3.1 Adjoining Properties - Past Uses

Prior uses for the properties discussed above were determined by obtaining historic aerial photographs dating back to 1938 from NETR Online; and from the Redlands, California USGS Topographic Map. The aerial photographs and USGS map are discussed in Section 3.4 below.

3.4 Historical Aerial Photograph and USGS Map Analysis

Historic aerial photographs were examined in order to determine what may have existed on a site prior to the construction of the existing buildings. The aerial photograph showed the following:

- An aerial photograph taken in **1938** showed the Subject Property and the adjoining properties to the north to be undeveloped, with no evidence of activity observed. Adjoining to the east, across Central Avenue, were small structures that appeared to be a residence and a garage. Adjoining to the south, across 3rd Street, were small structures that appeared to be a residence, a garage and storage buildings. The adjoining area to the west was what the City Creek bed. Smaller

structures were shown to the east, south and north that appeared be residential properties. A farm was shown to the northwest. The City Creek bed was shown to be unconfined in the area. A copy of this aerial photograph can be seen as Figure C-1 in Appendix C.

- An aerial photograph taken in **1959** showed smaller structures in the eastern portion of the Subject Property that appeared to be residences, garages and storage buildings. The balance of the Subject Property was shown to be undeveloped. The western portion of the adjoining area to the north was shown to be undeveloped; and in the eastern portion were small structures that appeared be residences, garages and storage buildings. Adjoining to the east, across Central Avenue, were small structures that appeared to be a residence, a garage and storage buildings as well as a small orchard. The adjoining area to the south, across 3rd Street, was shown to be developed with several structures that were associated with the Norton Air Force Base. In the adjoining area to the west were structures and vehicles on what may have been a vehicle sales facility. Several structures, a water tower and airplanes were shown to the south and southwest. The City Creek bed was shown to be unconfined in the area to the north. Smaller structures were shown to the east, north and northwest that appeared be residential properties. A copy of this aerial photograph can be seen as Figure C-2 in Appendix C.

- An aerial photograph taken in **1968** showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel may have included a mobile office and a storage building. In the central and eastern portions of the Subject Property were what appeared to be residences, garages and storage buildings. The western portion of the adjoining area to the north was shown to be undeveloped; and in the eastern portion were small structures that appeared be a residence and a garage. Adjoining to the east, across Central Avenue, were small structures that appeared to be a residence and a garage. The adjoining area to the south, across 3rd Street, was shown to be developed with several structures that were associated with the Norton Air Force Base. In the adjoining area to the west were structures and vehicles on what may have been a wrecking yard. Several structures and a water tower were shown to the south and southwest. The City Creek bed was shown to be confined in the area to the north. Smaller structures were shown to the east, north and northwest that appeared be residential properties. A park and a baseball diamond were observed to the northeast. A copy of this aerial photograph can be seen as Figure C-3 in Appendix C.

- An aerial photograph taken in **1980** showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel had been removed and the area was cleared. Smaller structures that appeared to be residences, garages and storage buildings and building foundation were observed on two of the central parcels. One small structure was shown in the eastern portion of the Subject Property. The western portion of the adjoining area to the north appeared to be pastures for what may have been a dairy located to the north on 5th Street; and in the eastern portion were small structures that appeared be residence and a garage; along with storage of items and a vacant lot. Adjoining to the east, across Central Avenue, were small structures that appeared to be a residence and a garage. The adjoining area to the south, across 3rd Street, was shown to be developed with several structures that were associated with the Norton Air Force Base. In the adjoining area to the west were structures and vehicles on what may have been a vehicle sales lot. Several of the

structures in the areas to the south and southwest had been demolished, but the water tower was observed. The City Creek flood control channel was shown to the north. Newer small industrial buildings and what may have been a wrecking yard were shown to the northeast. A warehouse or industrial building was shown to the west. Residential properties were shown to the east, north and northwest. A large area to the northeast where the baseball diamond was located had been cleared. A copy of this aerial photograph can be seen as Figure C-4 in Appendix C.

- An aerial photograph taken in **1994** showed the northwestern parcel of the Subject Property to be undeveloped, and it appeared that a few vehicles were scattered about on this parcel. A mobile office and a vehicle sales or storage lot was observed on the southwestern parcel. On the 26854 3rd Street and 26892 3rd Street/8082 Central Avenue parcels were what appeared to be residences, garages and storage buildings. The western portion of the adjoining area to the north appeared to be pastures for what may have been a dairy located to the north on 5th Street. In the eastern portion of the adjoining area to the north was a warehouse; small structures that appeared be a residence and a garage; and a vacant lot. The adjoining property to the east, across Central Avenue, was shown to be cleared and undeveloped. The adjoining area to the south, across 3rd Street, was shown to be developed with several structures that has been associated with the Norton Air Force Base. The adjoining area to the west was shown to have been cleared of structures and vehicles. Several of the structures in the areas to the south and southwest had been demolished, but the water tower was observed. The City Creek flood control channel was shown to the north. Small industrial buildings were shown to the northeast. A warehouse or industrial building was shown to the west. Residential properties were shown to the east, north and northwest. A large area to the northeast where the baseball diamond was located had been cleared. A copy of this aerial photograph can be seen as Figure C-5 in Appendix C.

- An aerial photograph taken in **2005** showed the northwestern parcel of the Subject Property to be undeveloped, and it appeared that a few vehicles were scattered about on this parcel. A mobile office and a vehicle sales or storage lot was observed on the southwestern parcel. The central parcels were shown to be cleared and undeveloped. On the 26892 3rd Street/8082 Central Avenue parcels were what appeared to be a residence, a garage and storage buildings. The western portion of the adjoining area to the north appeared to be used for truck storage. In the eastern portion of the adjoining area to the north was a warehouse; small structures that appeared be a residence and a garage; and a vacant lot. The adjoining property to the east, across Central Avenue, was shown to be used for equipment storage by an operation located to the northeast on 5th Street. The adjoining area to the south, across 3rd Street, was shown to be developed with apparently vacated structures that has been associated with the Norton Air Force Base. The adjoining area to the west was shown to be undeveloped. Structures and water tower were observed to the southwest. The City Creek flood control channel was shown to the north. A warehouse or industrial building was shown to the west. Residential properties were shown to the east, north and northwest. A large park, including baseball diamonds, was shown to the northeast. A copy of this aerial photograph can be seen as Figure C-6 in Appendix C.

- An aerial photograph taken in **2016** showed a storage building and dozens of vehicles on the northwestern parcel of the Subject Property. A mobile office and a vehicle sales or storage lot was observed on the southwestern parcel. The central and eastern parcels were shown to be cleared and undeveloped. The western portion of the adjoining area to the north appeared to be used for truck storage. In the eastern portion of the adjoining area to the north was a warehouse; and two small structures that appeared be residences and garages. The adjoining property to the east, across Central Avenue, was shown to be used for equipment storage by an operation located to the northeast on 5th Street. The adjoining area to the south, across 3rd Street, was shown to be developed with apparently vacated structures that has been associated with the Norton Air Force Base. The adjoining area to the west was shown to be undeveloped. A newer warehouse facility and a large trucking yard were shown to the southeast. Structures, airplanes and water tower were observed to the southwest. The City Creek flood control channel was shown to the north. A warehouse or industrial building was shown to the west. Residential properties were shown to the east, north and northwest. A large park, including baseball diamonds, was shown to the northeast. A copy of this aerial photograph can be seen as Figure C-7 in Appendix C.

USGS Map Analysis The 7.5 Minute Series United States Geological Survey Topographic Map for the area of the Subject Property is named the Redlands, California Map. The map, which was laid out 1967, showed several smaller structures on the Subject Property. One small structure was shown on the eastern portion of the adjoining area to the north. One small structure was shown on the adjoining property to the east, across Central Avenue. In the adjoining area to the south, across 3rd Street, were structures located on Norton Air Force Base. No structures were shown on the adjoining property to the west. City Creek was shown to the north-northwest. Smaller structures were shown in the areas to the west, east and northeast. Areas to the northwest were shaded to indicate residential development. The Santa Ana River was shown to the south. Areas to the northeast and west was labeled US Military Res. Schools were shown to the north and northwest. The map was photorevised (updated based on a review of aerial photographs) in 1988, and the updated map showed no newer structures on the Subject Property or on the adjoining properties to the north, east or west. A newer structure was shown in the adjoining area to the south (newer structures are shown in a purple tint on the revised map). Newer structures were shown to the northeast and east. Areas to the north and west were shaded to indicate that newer residential developments. A portion of the Redlands USGS Map is reproduced as Figure B-1 in Appendix B.

4 RECORDS SEARCH

4.1 Regulatory Agencies Database Search

The following Federal, State of California, tribal and local government agency databases and sources were searched for postings within designated radii of the Subject Property:

FEDERAL SOURCES

- National Priority List (NPL) Within 1.0 Mile
- Proposed National Priority List (PNPL) Within 1.0 Mile
- Superfund Enterprise Management System (SEMS) Within 0.50 Miles
- Federal Facility (Fed Fac) Within 0.50 Miles
- SEMS Archive Site (SEMS-Archive) Within 0.50 Miles
- RCRA Corrective Action (CORRACTS) Within 1.0 Mile
- RCRA Treatment Storage and Disposal Facilities (RCRA-TSDF) Within 0.50 Miles
- RCRA Hazardous Waste Generator (RCRA-LQG; RCRA-SQG; RCRA-CESQG) Within 0.25 Miles
- Federal EPA Institutional Controls/ Engineering Controls (US Inst Control/US Eng Control) Within 0.50 Miles
- Emergency Response Notification System for Spills (ERNS), Target Property Only
- US Brownfields Within 0.50 Miles

STATE OF CALIFORNIA AND LOCAL GOVERERNMENT SOURCES

- Response Within 1.0 Mile
- EnviroStor Within 1.0 Mile

- California/Tribal Landfills and/or Solid Waste (SWF/LF) Within 0.50 Miles
- California/Tribal Cleanup Program Sites-Spills, Leaks, Investigations and Cleanups (CPS-SLIC) Within 0.50 Miles
- California/Tribal Leaking Underground Storage Tanks (LUST) Within 0.50 Miles
- California/Tribal Hazardous Substance Storage Containers (UST/AST) Within 0.25 Miles
- California/Tribal EPA Voluntary Cleanup Program (VCP) Within 0.50 Miles
- Local Landfill and Solid Waste Disposal Sites (Debris Region 9, ODI, WMUDS/SWAT, SWRCY) Within 0.50 Miles
- Local Hazardous Waste and Contaminated Sites (US CDL, Historic Cal-Sites, SCH, Toxic Pts, CDL, US Historic CDL) Within Various Radii
- Local Underground Storage Tanks (CA FID UST, Historic UST, SWEEPS UST) Within 0.25 Miles
- Environmental Liens (LIENS) for Subject Property Only
- Deed Restricted Sites (DEED) Within 0.50 Miles
- Emergency Release Reports (HMIRS, CHMIRS, LDS, MCS) for Subject Property Only

The environmental database report is included in Appendix D.

SUBJECT PROPERTY None of the Subject Property addresses are posted onto the databases.

ADJOINING PROPERTIES Two of the adjoining properties are posted onto databases.

- **NATIONAL PRIORITY LIST (NPL)** The adjoining property to the south is posted onto the US Inst Controls, US Eng Controls, RCRA-SQG, RCRA-TSDF, CORRACTS, SEMS, National Priority List (NPL or Superfund) and EnviroStor lists. The area is designated the USAF Norton Air Force Base. The postings state that activities on this 2,,208 acre Air Force base, including burial of drums and other hazardous materials; disposal of waste oil, solvents and paint residues into landfills, unlined pits, ponds and drying beds; and spills of aviation fuel, oils and solvents, resulted in soil and groundwater contamination. The groundwater has been impacted, primarily by trichloroethylene (TCE). Norton Air Force Base was placed onto the NPL on May 1, 1986. The impacted areas have been well documented, remedial action commenced in 1995. In some areas, remedial action has been completed. The maps included with the EDR/FirstSearch report shows that the affected area is to the south and southwest of the Subject Property, and groundwater in the area flows to the southwest. In that the former

Norton Air Force Base is downgradient, it is not likely that this proximal NPL site would have affected the environmental condition of the Subject Property.

- One of the adjoining properties to the north, 26875 4th Place, is posted onto the RCRA NonGen list. The occupant is shown to be Jose Huizar. The RCRA NonGen posting states that the occupant is no longer a generator of s hazardous wastes at this site. In that the posting does not indicate that any spills or leaks have occurred, it is unlikely that the activities on this site would have affected the environmental condition of the Subject Property.

NEARBY PROPERTIES One site less than 0.125 miles from the Subject Property is posted onto databases.

- A site 0.08 miles to the southeast, at 3505 East 3rd Street, is posted onto the RCRA-SQG, San Bernardino County Permit (Permits) and RCRA NonGen lists. The occupants are shown to be Wyle Labs SBO East Dept. 551 and National Technical Systems. The RCRA-SQG posting states that Wyle Labs SBO East Dept. 551 is a generator of small quantities of hazardous wastes, shown to include ignitable wastes, corrosive wastes, waste mercury, non-halogenated solvent wastes and chem lab wastes. The first Permits posting states that Wyle Labs East Test Site is required to obtain permits from the San Bernardino Fire Department Hazardous Materials Division (SBCFD-HMD) as a generator of hazardous wastes and as a handler of hazardous materials. The second Permits posting states that National Technical Systems is required to obtain permits from the SBCFD-HMD as a generator of hazardous wastes, as an operator of above storage tanks (ASTs) and as a handler of hazardous materials. The RCRA NonGen posting states that National Technical Systems is no longer a generator of s hazardous wastes at this site. In that the postings do not indicate that any spills, leaks or unauthorized releases have occurred, it is unlikely that the activities or ASTs on this site would have affected the environmental condition of the Subject Property.

OTHER POSTINGS In the area, few properties are posted onto one or more of the environmental databases. Those of note include:

- A site 0.20 miles to the southeast, on the former Norton Air Force Base, is posted onto the SWF/LF list. The facility is shown to have been the Norton AFB Landfill. The SWF/LF posting states that the landfill has been closed. This landfill is designated IRP (Installation Restoration Program) Site 2 Landfill. Information regarding this landfill was sought on the GeoTracker online database. A report, dated September 25, 2015 and titled Final Fourth Five-Year Review Report, was prepared by AECOM Technical Services, Inc. for the Air Force Civil Engineer Center (2015 AECOM Review) was examined. The 2015 AECOM Review showed that this landfill was located to the on the south side of 3rd Street to the east of Central Avenue. The report states "The selected remedy for Site 2 is ICs (Institutional Controls) through land use restrictions, coupled with the long term operation, maintenance and monitoring (OM&M) of the landfill containment systems in compliance with State landfill closure regulations. An approved modification of the landfill cover to asphalt was performed in 2010. Ongoing OM&M is being performed in accordance with the regulatory-approved Closure and Post-Closure Maintenance Plan and related plans." In that this landfill has been capped and is

monitored, it is unlikely that the activities on this site would have affected the environmental condition of the Subject Property.

- A site 0.21 miles to the northeast, 26999 East 5th Street, is posted onto the RCRA-SQG list. The occupant is shown to be Mayflower Contract Services. The RCRA-SQG posting states that the occupant is a generator of small quantities of hazardous wastes. In that the posting does not indicate that any spills or leaks have occurred, it is unlikely that the activities on this site would have affected the environmental condition of the Subject Property.

- A site 0.24 miles to the southwest, 2824 East "W" Street, is posted onto the RCRA-SQG list. The occupant is shown to be San Bernardino County Fire Department. The RCRA-SQG posting states that the occupant is a generator of small quantities of hazardous wastes, shown to include waste tetrachloroethylene (PCE). In that the posting does not indicate that any spills or leaks have occurred, it is unlikely that the activities on this site would have affected the environmental condition of the Subject Property.

- A site 0.60 miles to the east, 7979 Palm Avenue, is posted onto the EnviroStor and CORRACTS lists. The occupant is shown to be Safety-Kleen Systems Highland Service Center. The EnviroStor postings states that the soil on this site had been impacted by total petroleum hydrocarbons (TPH) and Stoddard solvents, and that corrective action was required. The Status is given as No Further Action as of September 9, 2010. In that no further action was required, it is not likely that the impacted soil on this site would have affected the environmental condition of the Subject Property.

- A site 0.96 miles to the north, at Baseline Road and South Allen Street, is posted onto the EnviroStor list. The occupant is shown to be Cypress Elementary School. The EnviroStor posting indicates that past use for agricultural production was of potential concern. The Status is given as Inactive - Withdrawn. In that the posting does not indicate that any soil or groundwater impacts had been detected, it is unlikely that the activities on this site would have affected the environmental condition of the Subject Property.

There is no evidence that any of the posted sites have adversely affected the environmental condition of the Subject Property. There is a regional groundwater impacted zone to the south and southwest, on the former Norton Air Force Base.

4.1.2 State of California Department of Oil, Gas and Geothermal Resources (DOGGR)

The State of California Department of Conservation Division of Oil, Gas and Geothermal Resources (DOGGR) maintains maps that show the exact location of oil wells located in the state. The DOGGR Well Finder online mapping service was searched for oil wells in the immediate area. No oil wells were shown on, near or within one mile of the Subject Property.

4.1.3 State of California Department of Toxic Substance Control (DTSC)

The State of California Department of Toxic Substance Control (DTSC) is the agency that tracks sites on which there have been placed deed restrictions and land use restrictions. The DTSC web site for deed restricted sites and for land use restriction sites was searched. Neither the Subject Property nor any of the adjoining properties were included on these lists.

4.2 Regional Sources

4.2.1 Regional Water Quality Control Board

The California Regional Water Quality Control Board, Santa Ana Region (SARWQCB) maintains a list of sites with leaking underground storage tanks (LUST) and sites on which investigations into spills or leaks have been conducted (SLIC). The SARWQCB web site's GeoTracker database was searched. None of the Subject Property parcels were found on the LUST list or the SLIC list.

4.2.2 South Coast Air Quality Management District

The South Coast Air Quality Management District (AQMD) is a regional agency that regulates air emissions in the area of the Subject Property. The Facility Information Detail (FIND) database on the AQMD website was searched. The FIND database includes any site that generates vapors or emissions from any source, including USTs, paint spray booths, boilers, broilers, restaurants and so on. None of the Subject Property addresses were included on the FIND database.

4.3 County Sources

4.3.1 San Bernardino County Fire Department

The San Bernardino County Fire Department Hazardous Materials Division (SBCFD-HMD) is the agency charged with supervising the remediation of sites impacted by hazardous materials or hazardous wastes, for inspecting facilities that use hazardous materials and for responding to spills and leaks of hazardous materials. A request to review any files that may exist for the Subject Property was not submitted. The SBCFD-HMD requires three weeks to respond to a request and to schedule a file review, and none of the Subject Property addresses were posted onto the San Bernardino County Permit list, as discussed above in Section 4.1.

4.3.2 San Bernardino County Department of Public Works

The San Bernardino County Department of Public Works (SBCDPW) operates the landfills in the county. The SBCDPW website included a map of all active landfills in the county. None of the active landfills are within one mile of the Subject Property. The closest is the Mid-Valley Landfill, located more than a mile to the west on Alder Avenue in Rialto. Several landfills were located on the Norton Air Force Base, one of which was located 0.20 miles to the southeast. This landfill is discussed in Section 4.1 above.

4.4 City Sources

4.4.1 City of Highland Building and Safety Division

Building permits for the Subject Property addresses were requested from the City of Highland Community Development Department. Building and Safety Division records were requested from Betty Hughes, City Clerk of Highland, for all of the properties for which the Property Profiles included addresses, including 26840 3rd Street, 26854 3rd Street, 26892 3rd Street and 8082 Central Avenue. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family residence at 26854 3rd Street. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family dwelling, out buildings and a pole sign at 26892 3rd Street. No addition documents were provided. Copies of the documents discussed above can be seen in Appendix E.

5 SUBJECT PROPERTY INSPECTION

The Subject Property was inspected on August 5, 2020 by Chris Hayden, EP. The purpose of the site visit is to seek out and to report on visible environmental concerns, or to note use and storage of hazardous materials which could affect the environment condition of the Subject Property.

5.1 Use and Storage of Hazardous Materials at the Subject Property

The Subject Property consists of eight parcels of land. Assessor's parcel number 1192-561-11, a 1.10 acre parcel in the northwest portion of the Subject Property is used for vehicle storage and for replacement parts by a Volvo dealer. In the southwestern portion of the Subject Property, at 26816 3rd Street, is Bartlett Motors, a used car sales lot. The balance of the Subject Property consists of cleared and undeveloped parcels of land. On the day of the inspection, no use of hazardous materials were observed, as can be seen in Photographs 1 - 6 in Appendix C. In the northeastern portion of the Subject Property, an unlabeled drum was observed that appeared to full. The contents of this drum should be determined and the drum and its contents should be disposed of properly

5.2 Indications of PCBs

There is no indication that polychlorinated biphenyls (PCBs) were used or stored at the Subject Property. No transformers were observed on the Subject Property parcels. Transformers in the area would be the property of Southern California Edison.

5.3 Indications of Solid Waste Disposal

Solid wastes are not currently generated on the Subject Property. Solid wastes generated in the area are placed into dumpsters provided and serviced by Burrtec Waste Services.

5.4 Indications of Hazardous Waste Disposal

Hazardous wastes were not being generated on the Subject Property on the day of the inspection. There is no documentation to indicate that hazardous wastes were generated on the Subject Property in the past.

5.5 Indications of Asbestos Containing Materials (ACMs)

The structures on the Subject Property include a mobile office and a wood sided storage building. It is unlikely that asbestos containing building materials would have been used in the construction of the storage building.

5.6 Indications of Vapor Intrusion/Vapor Encroachment

Impacted soil or groundwater on a site may result in vapor intrusion; and impacted groundwater migrating towards a site may result in vapor encroachment. There is no indication that the soil on the Subject Property has been impacted. There is a National Priority List (NPL or Superfund) site adjoining to the south of the Subject Property. A report, dated September 25, 2015 and titled Final Fourth Five-Year Review Report, was prepared by AECOM Technical Services, Inc. for the Air Force Civil Engineer Center (2015 AECOM Review) was examined. The 2015 AECOM Review showed that impacted area of the former Norton Air Force Base proximal to the Subject Property was a the Former Base Landfill No. 2, which was located to the on the south side of 3rd Street to the east of Central Avenue. The report states "The selected remedy for Site 2 is ICs (Institutional Controls) through land use restrictions, coupled with the long term operation, maintenance and monitoring (OM&M) of the landfill containment systems in compliance with State landfill closure regulations. An approved modification of the landfill cover to asphalt was performed in 2010. Ongoing OM&M is being performed in accordance with the regulatory-approved Closure and Post-Closure Maintenance Plan and related plans." This former landfill is currently a trucking yard, as can be seen in the 2016 aerial photograph in Appendix C. Therefore, it is unlikely that vapor intrusion or vapor encroachment would be of concern for the Subject Property.

6 INTERVIEW

An important part of any Phase 1 is an interview with an individual having knowledge of the facilities and the operations at the property being assessed. For this ESA, Henry Bartlett, one of the owners of the Subject Property and the operator of Bartlett Motors, was questioned. Mr. Bartlett stated that he had been operating his vehicle sales lot on the southwestern parcel of the Subject Property for several years. He stated that he did not service vehicles of site. Mr. Bartlett leases the northwestern parcel to a Volvo dealer to store inoperable Volvo cars and other vehicles which he uses to obtain parts for his collision repairs business, which is located off-site. Mr. Bartlett stated that the vehicles have been drained of fluids before they are moved onto the Subject Property, and no oil stains were observed on this parcel. Betty Hughes, the Highland City Clerk provided building permits for two of the Subject Property parcels.

7 FINDINGS, OPINIONS AND CONCLUSIONS

Prior to arriving at these conclusions, the following tasks were completed:

- The Subject Property was inspected.
- The surrounding properties were observed.
- Historic aerial photographs were examined.
- Information was requested from various governmental and regulatory agencies for environmental information pertaining to the Subject Property.
- The databases from local, tribal, state and federal regulatory agencies were examined.
- Henry Bartlett, one of the owners of the Subject Property and the operator of Bartlett Motors, was questioned.

Findings included the following:

- The 1938 aerial photograph showed the Subject Property to be undeveloped, with no evidence of activity observed.
- The 1959 aerial photograph showed smaller structures in the eastern portion of the Subject Property that appeared to be residences, garages and storage buildings. The balance of the Subject Property was shown to be undeveloped.
- The 1968 aerial photograph showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel may have included a mobile office and a storage building. In the central and eastern portions of the Subject Property were what appeared to be residences, garages and storage buildings.
- The 1980 aerial photograph showed storage of trucks or vehicles in the eastern portion of the northwestern parcel the Subject Property. Structures in the southwestern parcel had been removed and the area was cleared. Smaller structures that appeared to be residences, garages and storage buildings and building foundation were observed on two of the central parcels. One small structure was shown in the eastern portion of the Subject Property.

- The 1994 aerial photograph showed a mobile office and a vehicle sales or storage lot in the southwestern portion of the Subject Property. The northwestern parcel was shown to be undeveloped, and it appeared that a few vehicles were scattered about on this parcel. On the 26854 3rd Street and 26892 3rd Street/8082 Central Avenue parcels were what appeared to be residences, garages and storage buildings. The remaining parcels appeared to be undeveloped.

- The 2005 aerial photograph a mobile office, a storage building and a vehicle sales or storage lot in the southwestern portion of the Subject Property. A storage building and a vehicle storage lot were observed in the northwestern parcel. The 26854 3rd Street parcel was shown to have been cleared of structures. The 26892 3rd Street/8082 Central Avenue parcels were shown to be developed with what appeared to be residences, garages and storage buildings.

- Building and Safety Division records were requested from Betty Hughes, City Clerk of Highland, for all of the properties for which the Property Profiles included addresses, including 26840 3rd Street, 26854 3rd Street, 26892 3rd Street and 8082 Central Avenue. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family residence at 26854 3rd Street. A permit, dated May 5, 2010, was issued to Edward J. Meyer, Jr. Trust to demolish a single family dwelling, out buildings and a pole sign at 26892 3rd Street. No addition documents were provided.

- The 2016 aerial photograph a mobile office, a storage building and a vehicle sales or storage lot in the southwestern portion of the Subject Property. A storage building and a vehicle storage lot were observed in the northwestern parcel. The remaining parcels were shown to be cleared and undeveloped.

- The Subject Property consists of eight parcels of land. Assessor's parcel number 1192-561-11, a 1.10 acre parcel in the northwest portion of the Subject Property is used for vehicle storage and for replacement parts by a Volvo dealer. In the southwestern portion of the Subject Property, at 26816 3rd Street, is Bartlett Motors, a used car sales lot. The balance of the Subject Property consists of cleared and undeveloped parcels of land.

- None of the Subject Property parcels were posted onto any of the environmental databases searched in Section 4.1.

- The Subject Property is located adjacent and to the north of the former Norton Air Force Base, which is posted onto the National Priority List as a Superfund site. The proximal area of concern on the base was a landfill which was located to the south of 3rd Street and to the east of Central Avenue. An asphalt cap has been installed over this landfill, and there is an ongoing operations, maintenance and monitoring system in place.

- On the day of the inspection, no use or storage of hazardous materials were observed on the Subject Property.

HEI Corporation has performed a Phase 1 Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 (and Final Rule 40 CFR Part 312 et seq.) on the on the eight parcels of land at northwest corner of 3rd Street and Central Avenue in the City of Highland in San Bernardino County. Any exceptions to, or deletions from, this practice are discussed in Section 2.6 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Subject Property. No further action is required.

APPENDIX A

LIMITATIONS

LIMITATIONS

The services described in this report were performed consistent with generally accepted consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with the Client. This report is solely for the use and information of the Client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

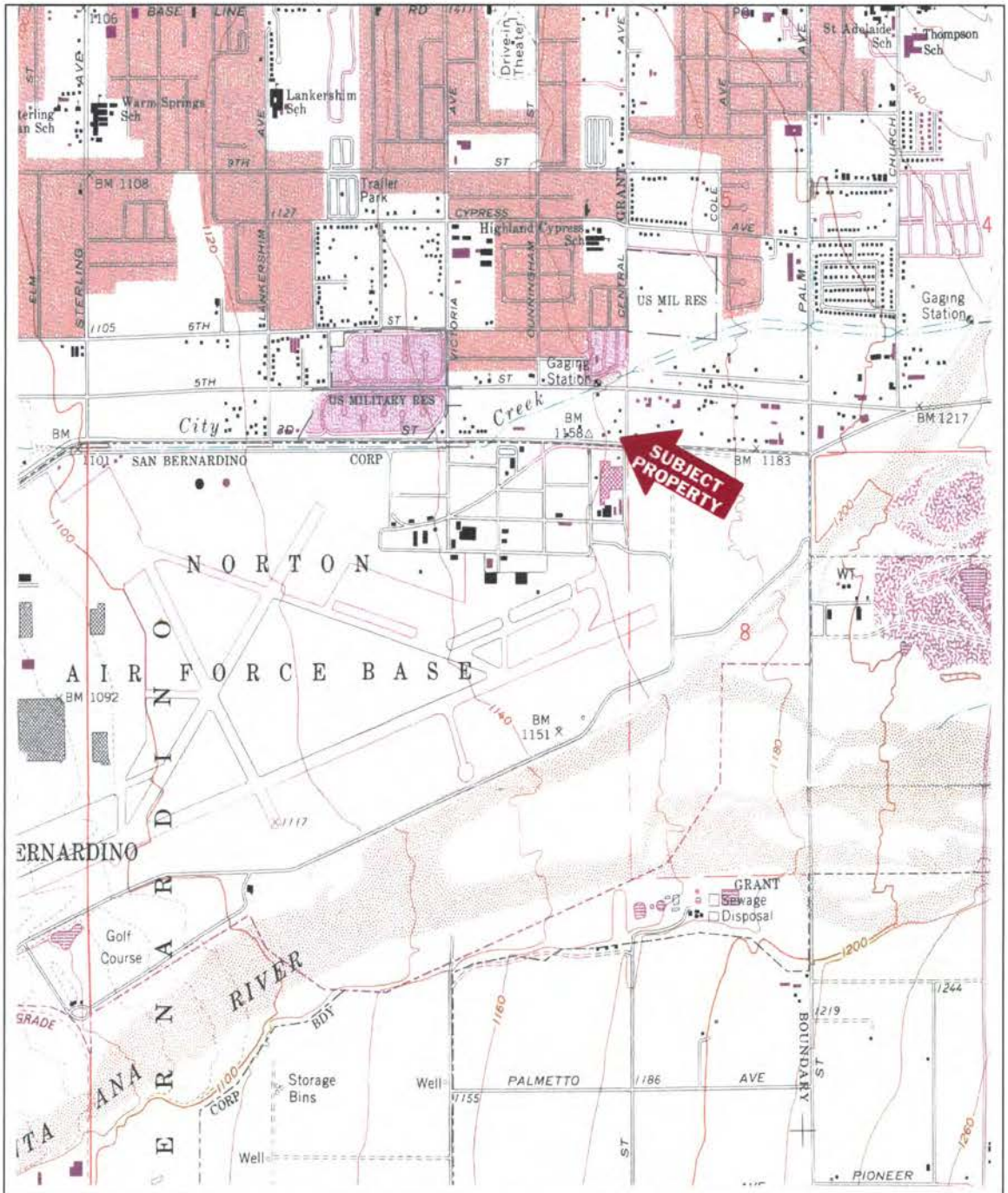
Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the Client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services. We do not warrant the accuracy of information supplied by others.

The purpose of an environmental assessment is to reasonable evaluate the potential for or actual impact of past and current practices on the Subject Property. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraph discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the services performed within the scope, limitations, and cost of the work performed. Environmental conditions may exist on the Subject Property that cannot be identified by visual observation.

APPENDIX B

USGS MAP / ASSESSOR'S PARCEL MAP



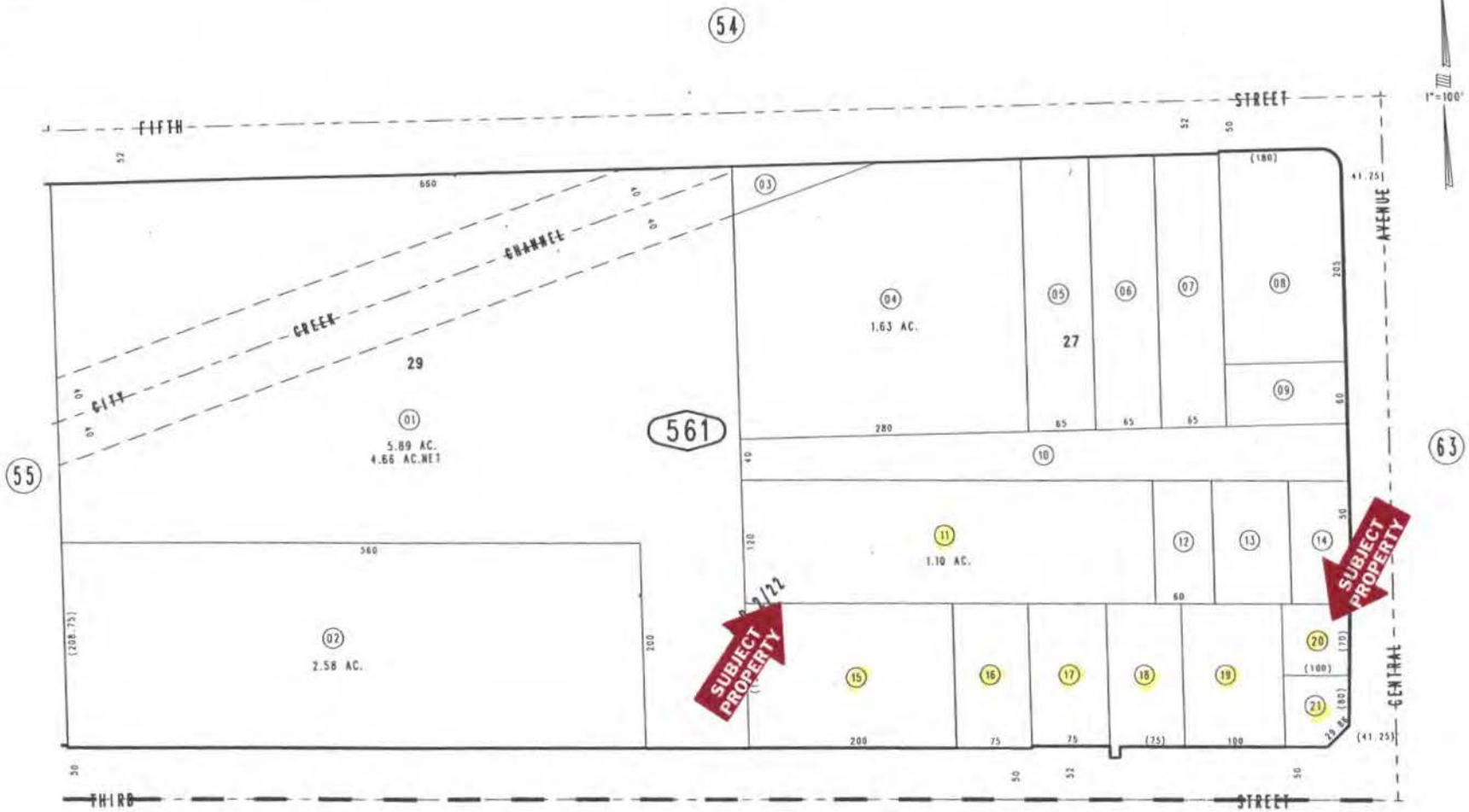
Hayden Environmental	USGS 7.5 Minute Topographic Map Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/12/20	FIGURE: B-1

THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. Cunningham Subdivision, M.B. 2/22

City of Highland
Tax Rate Area
18042

1192 - 56



0136
37

MAR 1 2 2019

REVISED
04/27/15 KC
04/29/16 RU
05/31/17 KA
12/19/17 KA
10/03/18 KA
02/05/19 KA

Ptn. S.W.1/4, Sec. 5
T.1S., R.3W.

Assessor's Map
Book 1192 Page 56
San Bernardino County

AUGUST 1997

APPENDIX C

SUBJECT PROPERTY PHOTOGRAPHS
1938, 1959, 1968, 1980, 1994, 2005 AND 2016 AERIAL PHOTOGRAPHS

PHOTOGRAPHS

1. View of the Northwestern Parcel of the Subject Property Looking East-Southeast Showing Storage of Vehicles

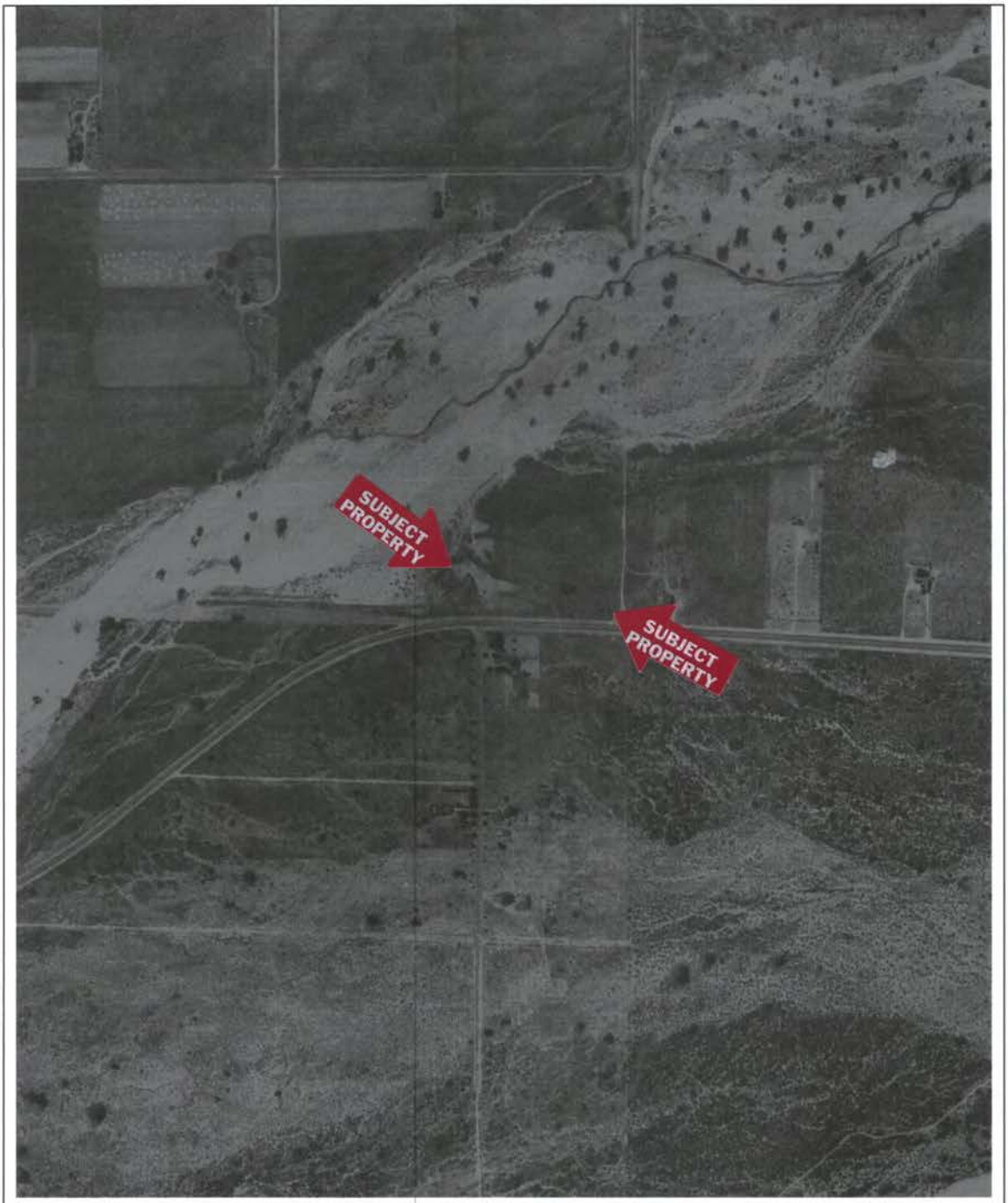
2. View of the Northwestern Parcel of the Subject Property Looking West Showing Storage of Vehicles and Metal Debris

3. View of the Southwestern Parcel of the Subject Property Showing Vehicles for Sale at Bartlett Motors

4. View of the Central Parcels of the Subject Property Looking Northeast Showing Concrete Debris

5. View of the Eastern and Central Parcels of the Subject Property Looking Northwest

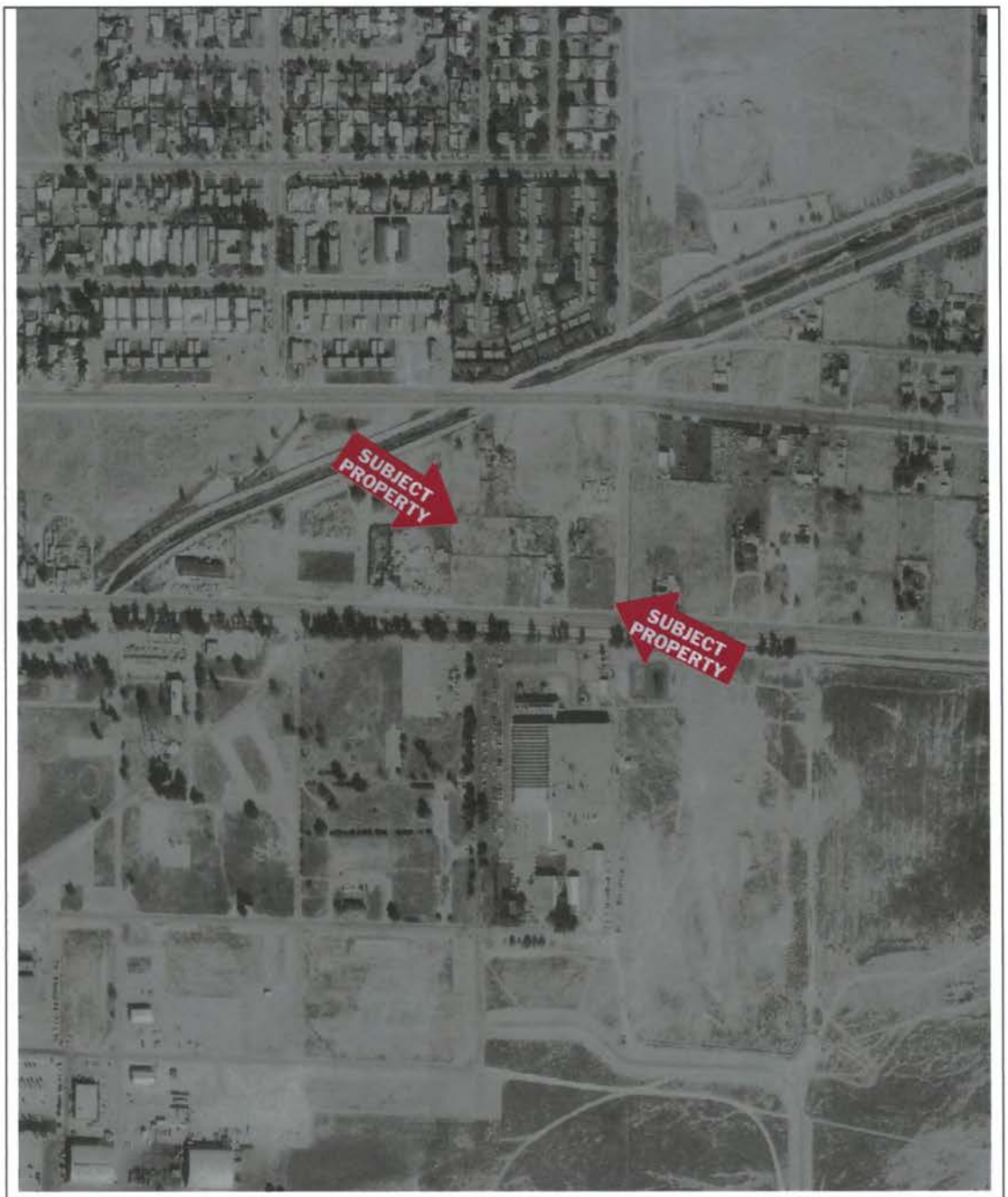
6. View of the Eastern and Central Parcels of the Subject Property Looking Southwest



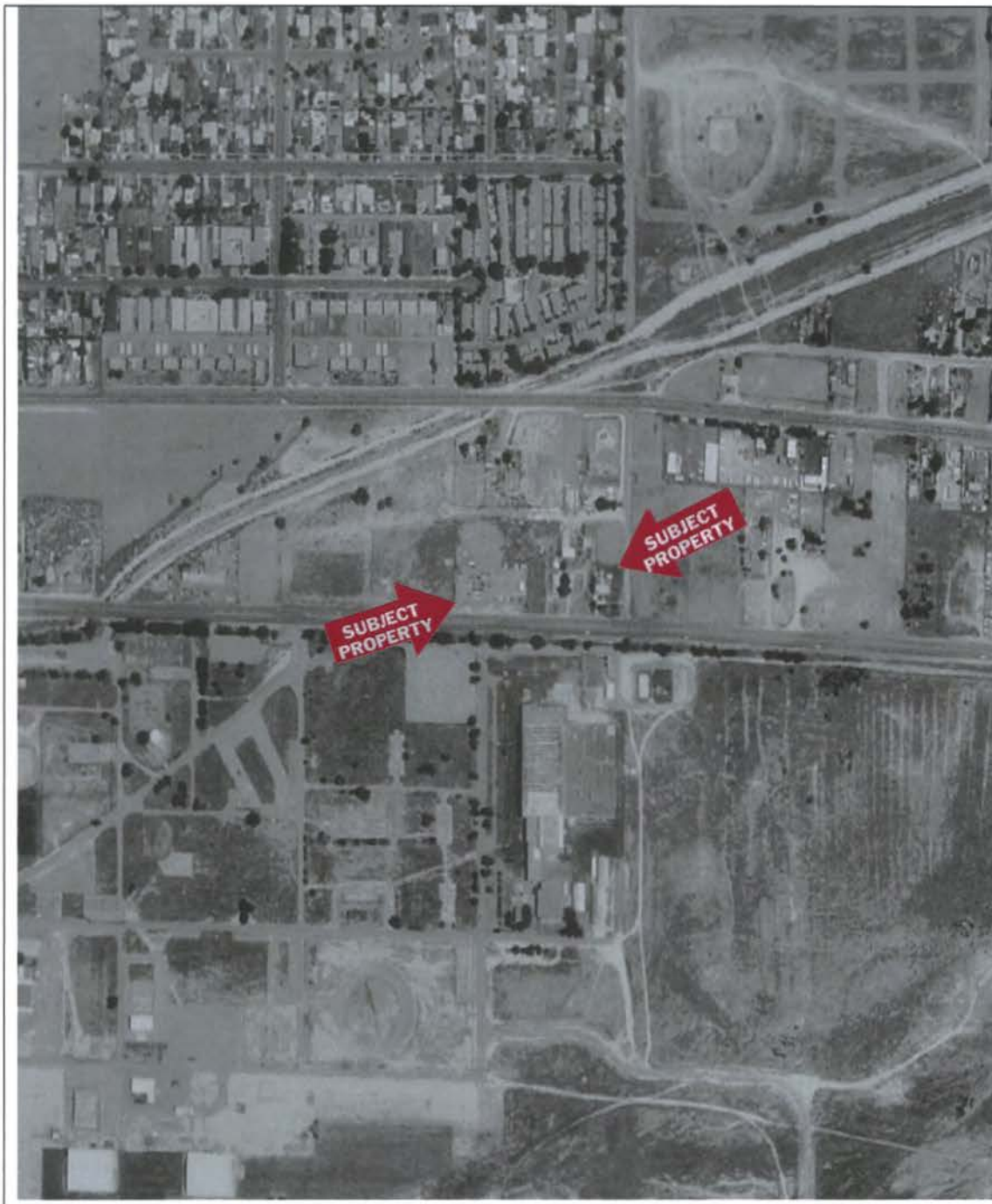
Hayden Environmental	1938 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/11/20	FIGURE: C-1

Hayden Environmental	1959 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/11/20	FIGURE: C-2

Hayden Environmental	1968 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/11/20	FIGURE: C-3

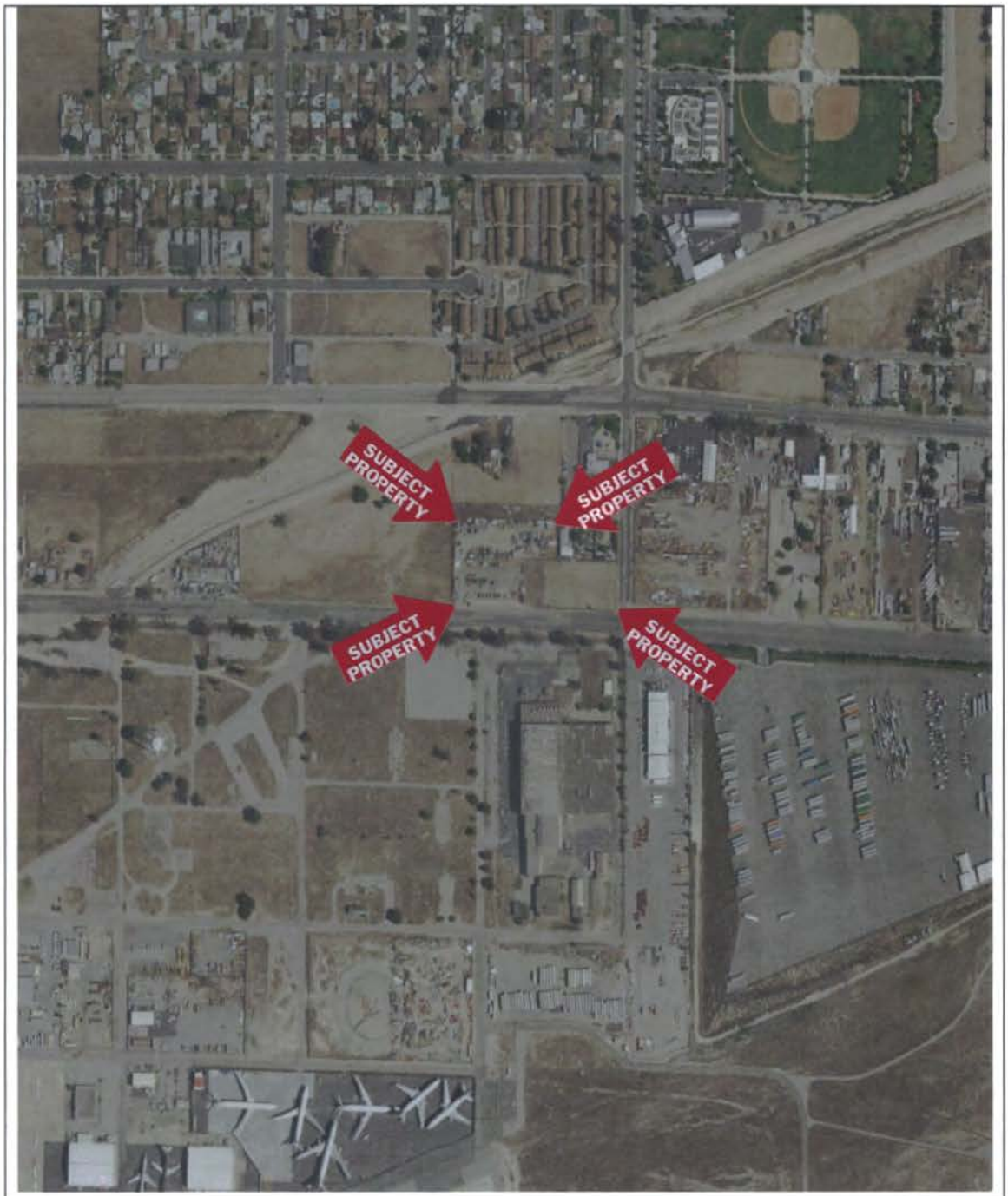


Hayden Environmental	1980 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/12/20	FIGURE: C-4



Hayden Environmental	1994 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/12/20	FIGURE: C-5

Hayden Environmental	2005 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/12/20	FIGURE: C-6



Hayden Environmental	2016 AERIAL PHOTOGRAPH Subject Property: 26816 3rd Street; Highland, California	↑ **NORTH**
JOB NUMBER: 20-4474	Date: 8/12/20	FIGURE: C-7

APPENDIX D

REGULATORY AGENCIES DATABASE REPORT

Highland Project
26816 3rd Street
Highland, CA 92346

Inquiry Number: 06146670.2r
August 06, 2020

FirstSearch Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Search Summary Report

TARGET SITE **26816 3RD STREET**
HIGHLAND, CA 92346

Category	Sel	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	Y	0	1	0	0	0	0	1
NPL Delisted	Y	0	0	0	0	0	0	0
CERCLIS	Y	0	1	0	0	-	1	2
NFRAP	Y	0	0	0	0	-	1	1
RCRA COR ACT	Y	0	1	0	0	1	0	2
RCRA TSD	Y	0	1	0	0	-	0	1
RCRA GEN	Y	0	2	2	-	-	0	4
Federal IC / EC	Y	0	2	0	0	-	0	2
ERNS	Y	0	-	-	-	-	0	0
State/Tribal NPL	Y	0	0	0	0	0	0	0
State/Tribal CERCLIS	Y	0	0	0	0	5	0	5
State/Tribal SWL	Y	0	0	1	0	-	0	1
State/Tribal LTANKS	Y	0	0	0	0	-	1	1
State/Tribal Tanks	Y	0	-	-	-	-	0	0
State/Tribal VCP	Y	0	0	0	0	-	0	0
US Brownfields	Y	0	0	0	0	-	0	0
Other SWF	Y	0	0	0	0	-	0	0
Other Haz Sites	Y	0	0	0	-	-	0	0
Other Tanks	Y	0	0	0	-	-	0	0
Local Land Records	Y	0	0	0	0	-	0	0
Spills	Y	0	-	-	-	-	0	0
Other	Y	0	4	-	-	-	0	4
	- Totals --	0	12	3	0	6	3	24

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Search Summary Report

TARGET SITE: **26816 3RD STREET**
HIGHLAND, CA 92346

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
NPL	NPL	04/27/2020	1.000	0	1	0	0	0	0	1
	Proposed NPL	04/27/2020	1.000	0	0	0	0	0	0	0
NPL Delisted	Delisted NPL	04/27/2020	1.000	0	0	0	0	0	0	0
CERCLIS	SEMS	04/27/2020	0.500	0	1	0	0	-	1	2
NFRAP	SEMS-ARCHIVE	04/27/2020	0.500	0	0	0	0	-	1	1
RCRA COR ACT	CORRACTS	03/23/2020	1.000	0	1	0	0	1	0	2
RCRA TSD	RCRA-TSDF	03/23/2020	0.500	0	1	0	0	-	0	1
RCRA GEN	RCRA-LQG	03/23/2020	0.250	0	0	0	-	-	0	0
	RCRA-SQG	03/23/2020	0.250	0	2	2	-	-	0	4
	RCRA-VSQG	03/23/2020	0.250	0	0	0	-	-	0	0
Federal IC / EC	US ENG CONTROLS	02/13/2020	0.500	0	1	0	0	-	0	1
	US INST CONTROLS	02/13/2020	0.500	0	1	0	0	-	0	1
ERNS	ERNS	03/22/2020	TP	0	-	-	-	-	0	0
State/Tribal NPL	RESPONSE	04/27/2020	1.000	0	0	0	0	0	0	0
State/Tribal CERCLIS	ENVIROSTOR	04/27/2020	1.000	0	0	0	0	5	0	5
State/Tribal SWL	SWF/LF	05/11/2020	0.500	0	0	1	0	-	0	1
State/Tribal LTANKS	LUST	05/13/2020	0.500	0	0	0	0	-	1	1
	INDIAN LUST	10/01/2019	0.500	0	0	0	0	-	0	0
	CPS-SLIC	05/13/2020	0.500	0	0	0	0	-	0	0
State/Tribal Tanks	UST	03/09/2020	TP	0	-	-	-	-	0	0
	AST	07/06/2016	TP	0	-	-	-	-	0	0
	INDIAN UST	10/01/2019	0.250	0	0	0	-	-	0	0
State/Tribal VCP	VCP	04/27/2020	0.500	0	0	0	0	-	0	0
US Brownfields	US BROWNFIELDS	06/01/2020	0.500	0	0	0	0	-	0	0

Search Summary Report

TARGET SITE: **26816 3RD STREET**
HIGHLAND, CA 92346

Category	Database	Update	Radius	Site	1/8	1/4	1/2	> 1/2	ZIP	TOTALS
Other SWF	WMUDS/SWAT	04/01/2000	0.500	0	0	0	0	-	0	0
Other Haz Sites	SCH	04/27/2020	0.250	0	0	0	-	-	0	0
	US CDL	03/18/2020	TP	0	-	-	-	-	0	0
Other Tanks	SWEEPS UST	06/01/1994	0.250	0	0	0	-	-	0	0
Local Land Records	DEED	03/02/2020	0.500	0	0	0	0	-	0	0
Spills	HMIRS	02/27/2020	TP	0	-	-	-	-	0	0
	CHMIRS	03/31/2020	TP	0	-	-	-	-	0	0
Other	RCRA NonGen / NLR	03/23/2020	0.125	0	2	-	-	-	0	2
	TSCA	12/31/2016	TP	0	-	-	-	-	0	0
	TRIS	12/31/2018	TP	0	-	-	-	-	0	0
	SSTS	03/01/2020	TP	0	-	-	-	-	0	0
	RAATS	04/17/1995	TP	0	-	-	-	-	0	0
	PRP	04/27/2020	TP	0	-	-	-	-	0	0
	PADS	10/09/2019	TP	0	-	-	-	-	0	0
	ICIS	11/18/2016	TP	0	-	-	-	-	0	0
	FTTS	04/09/2009	TP	0	-	-	-	-	0	0
	MLTS	10/25/2019	TP	0	-	-	-	-	0	0
	RADINFO	07/01/2019	TP	0	-	-	-	-	0	0
	INDIAN RESERV	12/31/2014	1.000	0	0	0	0	0	0	0
	LEAD SMELTERS	04/27/2020	TP	0	-	-	-	-	0	0
	US AIRS	10/12/2016	TP	0	-	-	-	-	0	0
	FINDS	02/03/2020	TP	0	-	-	-	-	0	0
	CUPA Listings		0.125	0	0	-	-	-	0	0
	HAZNET	12/31/2019	TP	0	-	-	-	-	0	0
	San Bern. Co. Permit	02/25/2020	0.125	0	2	-	-	-	0	2
	UIC GEO	05/13/2020	TP	0	-	-	-	-	0	0
	WDS	06/19/2007	TP	0	-	-	-	-	0	0
	MILITARY PRIV SITES	05/13/2020	TP	0	-	-	-	-	0	0
	PROJECT	05/13/2020	TP	0	-	-	-	-	0	0
	CIWQS	03/02/2020	TP	0	-	-	-	-	0	0
	NON-CASE INFO	05/13/2020	TP	0	-	-	-	-	0	0
	OTHER OIL GAS	05/13/2020	TP	0	-	-	-	-	0	0
	PROD WATER PONDS	05/13/2020	TP	0	-	-	-	-	0	0
	SAMPLING POINT	05/13/2020	TP	0	-	-	-	-	0	0
	WELL STIM PROJ	05/13/2020	TP	0	-	-	-	-	0	0
	- Totals --			0	12	3	0	6	3	24

Site Information Report

Request Date:	AUGUST 5, 2020	**Search Type:**	COORD
Request Name:	CHRIS HAYDEN	**Job Number:**	NA

Target Site: 26816 3RD STREET
HIGHLAND, CA 92346

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	117.218736	117.2187360 - 117˚ 13’ 7.44’’	Easting:	479825.1
Latitude:	34.106924	34.1069240 - 34˚ 6’ 24.92’’	Northing:	3773838.5
Elevation:	1163 ft. above sea level		Zone:	Zone 11

Demographics

Sites: 21 **Non-Geocoded:** 3 **Population:** N/A

RADON

Federal EPA Radon Zone for SAN BERNARDINO 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 Zip Code: 92346

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

Federal Area Radon Information for SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.678 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

Site Information Report

RADON

State Database: CA Radon

Radon Test Results

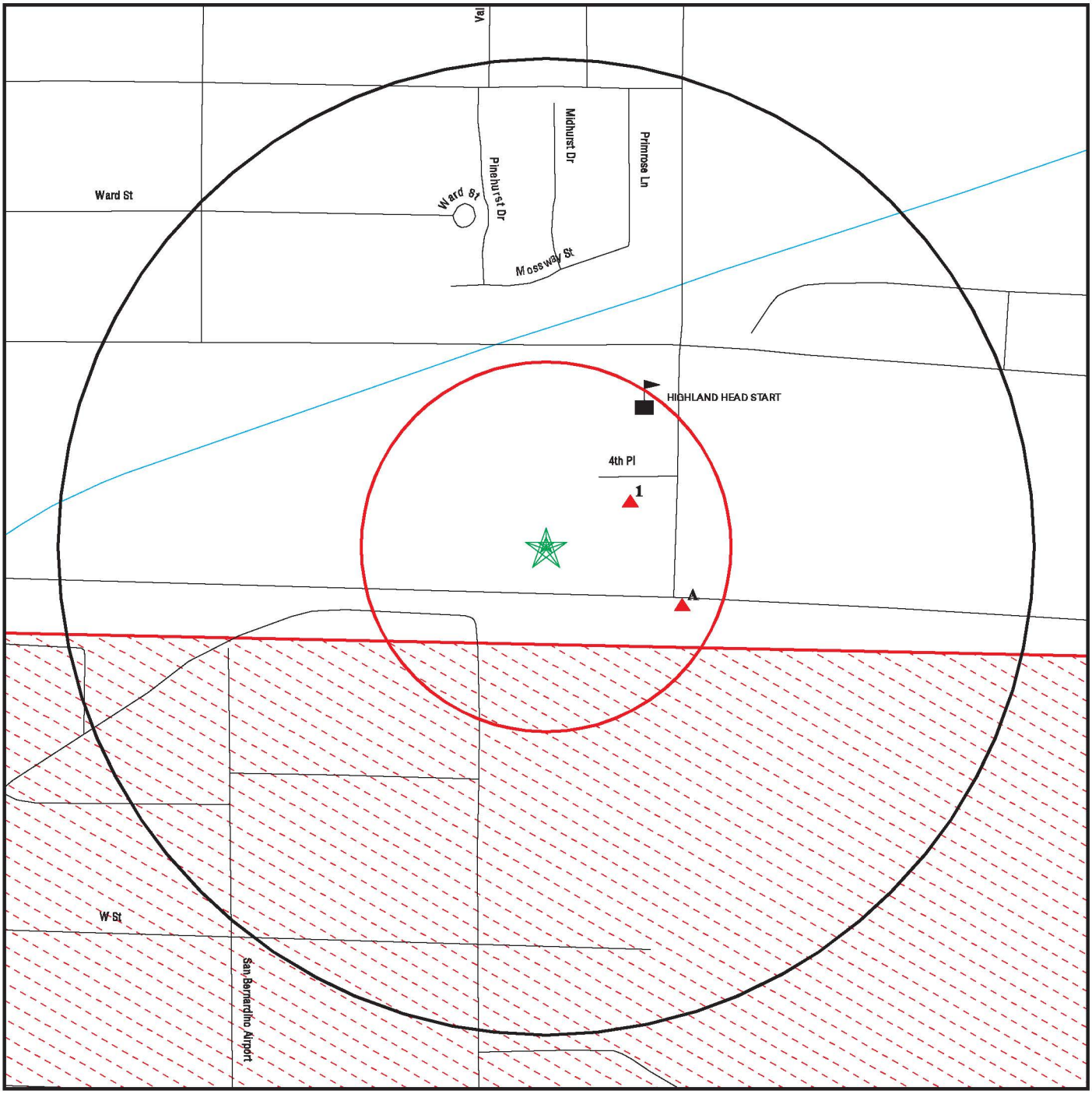
Zipcode	Num Tests	> 4 pCi/L
92346	17	0

Environmental FirstSearch

0.25 Mile Radius

Non ASTM Map, Spills, FINDS

26816 3RD STREET HIGHLAND, CA 92346



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.106924 Longitude: 117.218736)

▲ Identified Sites

Sensitive Receptors

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR Internal use only): 06146670.2r
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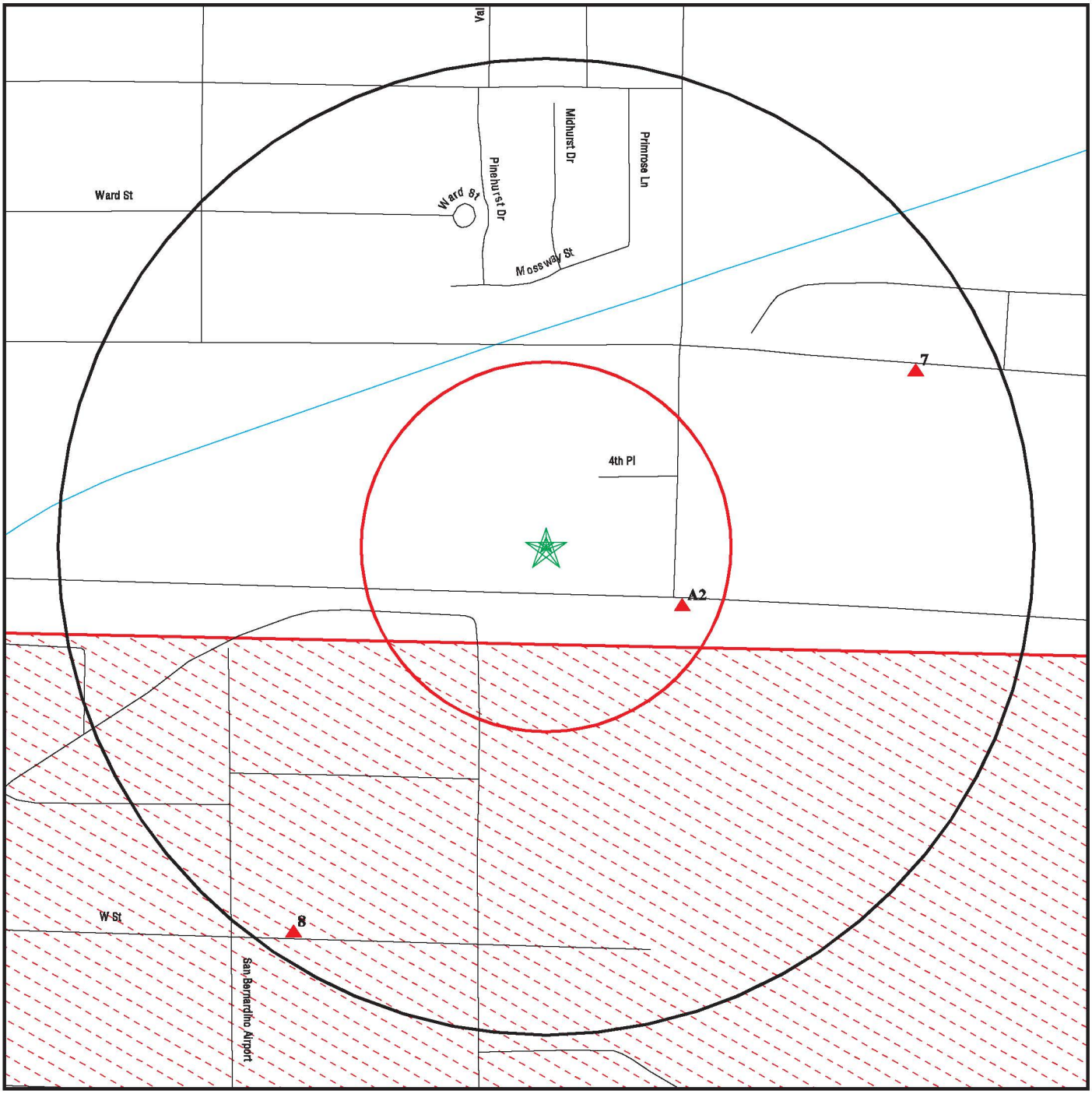
20-08-06.06:05:13.Thu

Environmental FirstSearch

0.25 Mile Radius

ASTM MAP: RCRAGEN, ERNS, UST, FED IC/EC, METH LABS

26816 3RD STREET HIGHLAND, CA 92346



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.106924 Longitude: 117.218736)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR internal use only): 06146670.2r
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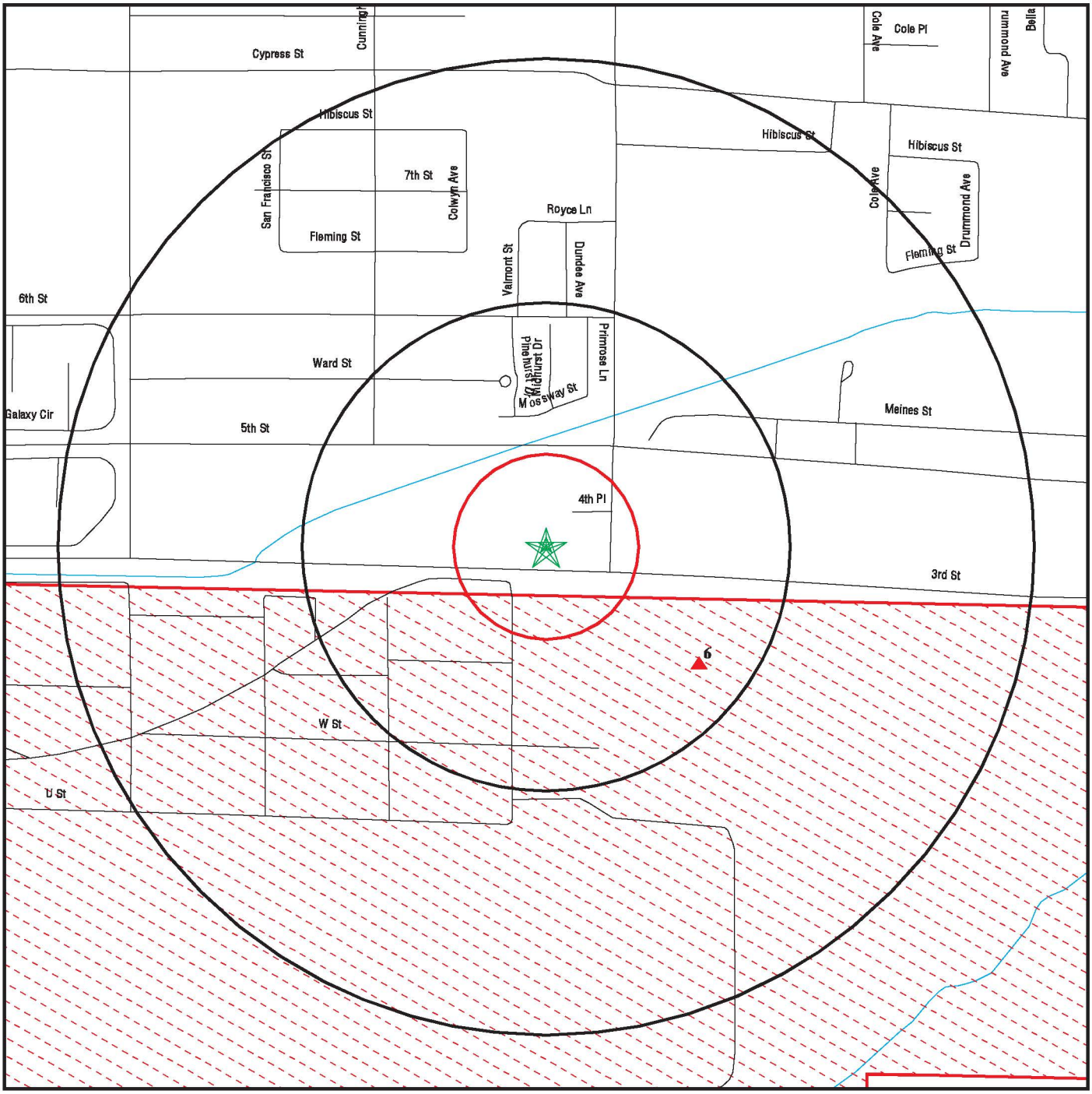
20-08-06.06:04:53.Thu

Environmental FirstSearch

0.500 Mile Radius

ASTM MAP: CERCLIS, RCRATSD, LUST, SWL

26816 3RD STREET HIGHLAND, CA 92346



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.106924 Longitude: 117.218736)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR Internal use only): 06146670.2r
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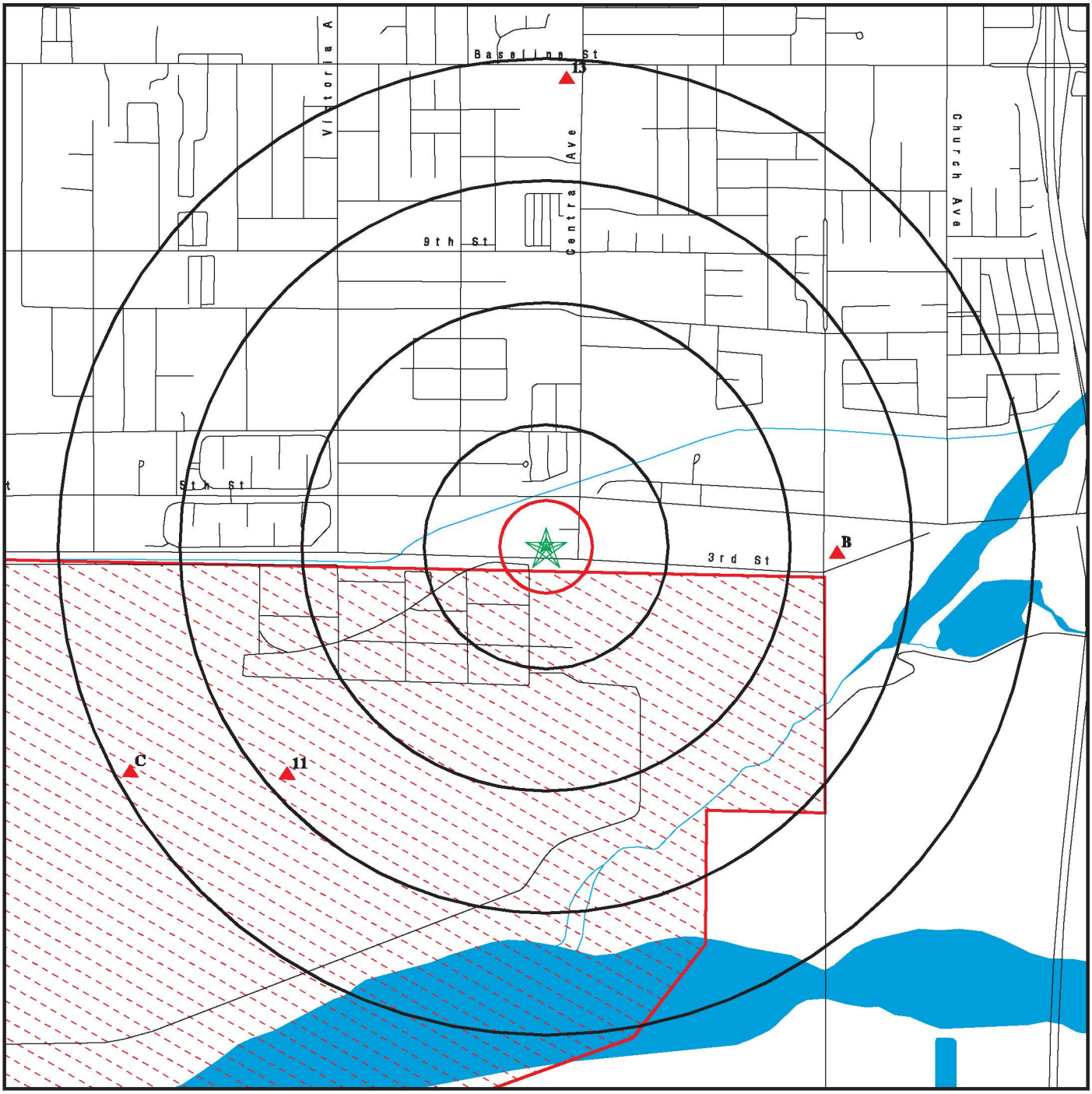
20-08-06.06:04:23.Thu

Environmental FirstSearch

1.000 Mile Radius

ASTM MAP: NPL, RCRACOR, STATES Sites

26816 3RD STREET HIGHLAND, CA 92346



Black Rings Represent Qtr. Mile Radius; Red Ring Represents 500 ft. Radius

★ Target Property (Latitude: 34.106924 Longitude: 117.218736)

▲ Identified Sites

National Priority List Sites

Indian Reservations BIA

EDR Reference Code (EDR internal use only): 06146670.2r
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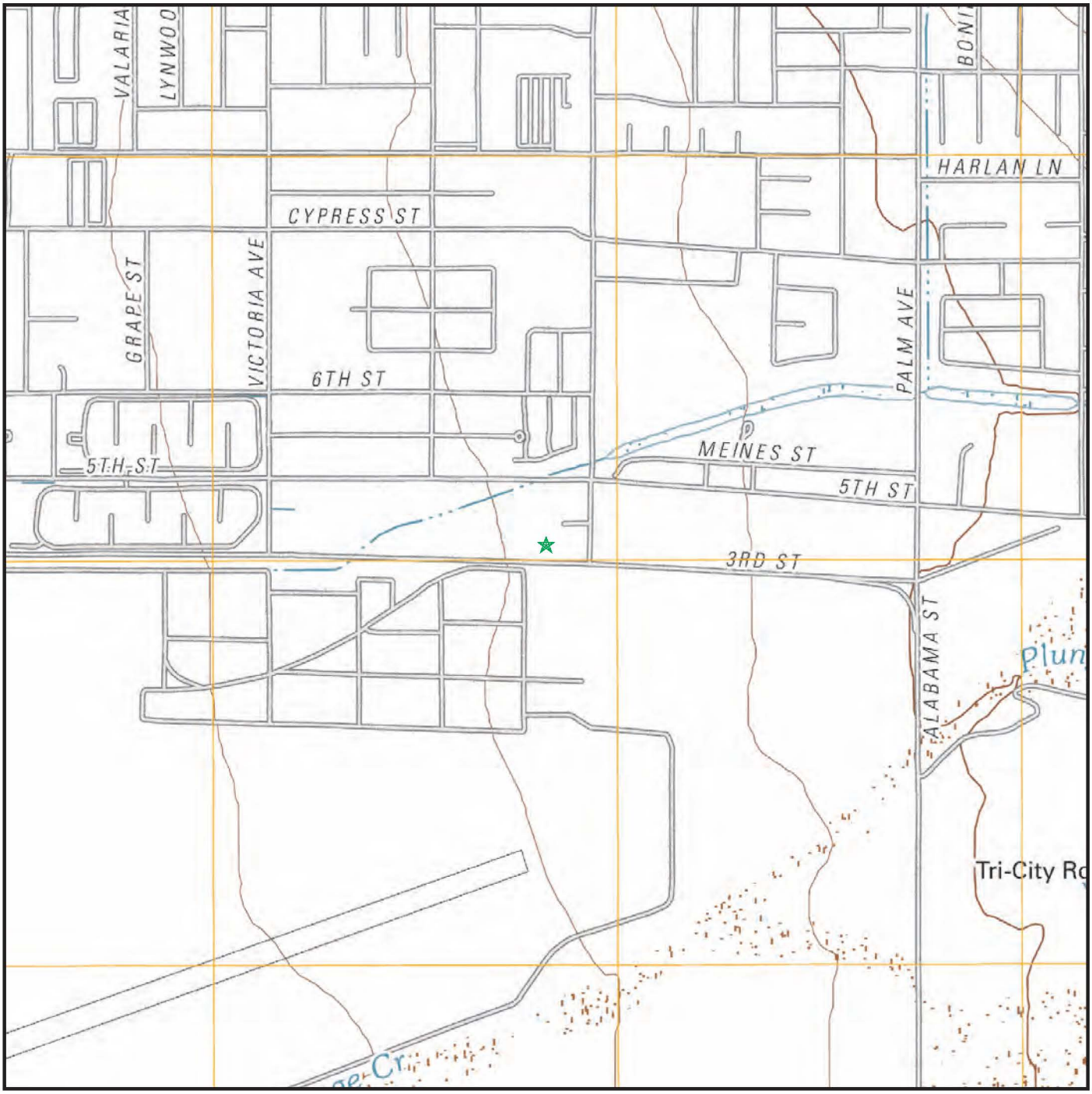
20-08-06.06:03:40.Thu

Site location Map

Topo: 0.75 Mile Radius

26816 3RD STREET HIGHLAND, CA 92346



Map Image Position: TP
Map Reference Code & Name: 5630631 Redlands
Map State(s): CA
Version Date: 2012

Target Site Summary Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

TOTAL: 24 GEOCODED: 21 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.

No sites found for target address

Sites Summary Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

TOTAL: 24 GEOCODED: 21 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
Reg	US INST CONTROLS --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		1
Reg	US ENG CONTROLS --CA4570024345 --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		3
Reg	RCRA-SQG --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		10
Reg	RCRA-TSDF --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		23
Reg	CORRACTS --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		36
Reg	SEMS --0902760 --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		40
Reg	NPL --902760 --CA4570024345	NORTON AIR FORCE BASE (LNDFLL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA 92408	0.05 South		52
1	RCRA NonGen / NLR --CAC003035088	JOSE HUIZAR	26875 4TH PL HIGHLAND, CA 92346	0.05 ENE	+ 2	56
A2	RCRA-SQG --CAR000169649	WYLE LABS SBO EAST DEPT 551	3505 E 3RD ST SAN BERNARDINO, CA 92408	0.08 ESE	+ 3	58
A3	San Bern. Co. Permit --FA0010413 --INACTIVE	WYLE LABS EAST TEST SITE DEPT	3505 E 3RD ST SAN BERNARDINO, CA 92408	0.08 ESE	+ 3	61
A4	San Bern. Co. Permit --FA0016030 --ACTIVE	NATIONAL TECHNICAL SYSTEMS	3505 E THIRD ST SAN BERNARDINO, CA 92408	0.08 ESE	+ 3	62

Sites Summary Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

TOTAL: 24 GEOCODED: 21 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
A5	RCRA NonGen / NLR --CAL000398078	NATIONAL TECHNICAL SYSTEMS SAN	3505 E THIRD ST SAN BERNARDINO, CA 92408	0.08 ESE	+ 3	63
6	SWF/LF --Closed --Unpermitted --36-AA-0312	NORTON AFB LANDFILL	I-10/US 395 FORMER NORTON SAN BERNARDINO, CA	0.20 SE	+ 8	65
7	RCRA-SQG --CAD982433757	MAYFLOWER CONTRACT SERVICES	26999 E 5TH STREET HIGHLAND, CA 92346	0.21 ENE	+ 11	66
8	RCRA-SQG --CAR000073072	SAN BERNARDINO COUNTY FIRE DEP	2824 E W ST SAN BERNARDINO, CA 92408	0.24 SSW	- 5	68
B9	ENVIROSTOR --80001784 --No Further Action	SAFETY-KLEEN SYSTEMS INC HIGHL	7979 PALM AVE #E HIGHLAND, CA 92346	0.60 East	+ 36	70
B10	CORRACTS --CAT000613927	SAFETY-KLEEN SYSTEMS INC HIGHL	7979 PALM AVENUE HIGHLAND, CA 92346	0.60 East	+ 36	73
11	ENVIROSTOR --36970004 --Active	NORTON AIR FORCE BASE	2,208 ACRES;58 MI EA OF L SAN BERNARDINO, CA 92409	0.70 SW	- 25	76
C12	ENVIROSTOR --80000878 --Inactive - Needs Evaluation	AAC SUPPLY DEPOT	SAN BERNARDINO, CA	0.96 WSW	- 39	109
13	ENVIROSTOR --60000047 --Inactive - Withdrawn	CYPRESS II ELEMENTARY SCHOOL	BASELINE/SOUTH ALLEN STRE SAN BERNARDINO, CA 92346	0.96 North	+ 16	111
C14	ENVIROSTOR --80001185 --Inactive - Needs Evaluation	NORTON COMM FAC	SAN BERNARDINO, CA	0.97 WSW	- 40	113

Sites Summary Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

TOTAL: 24 GEOCODED: 21 NON GEOCODED: 3

Map ID	DB Type --ID/Status	Site Name	Address	Dist/Dir	ElevDiff	Page No.
	SEMS-ARCHIVE --0902457 --CAD981576507	SECCOMBE LAKE STATE REC AREA	7TH ST BETW SERRIA & WATE SAN BERNARDINO, CA 92410	NON GC	N/A	N/A
	LUST --Case Closed --T0607100403	NORTON A F B BLDG 754	7TH ST SAN BERNARDINO, CA 92410	NON GC	N/A	N/A
	SEMS --0905903 --CAN000905903	CIMA ROAD MINE WASTE SITE	1 MIL W OF INTE. 15 OFF C SAN BERNARDINO COUNTY, CA	NON GC	N/A	N/A

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US INST CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345

US INST CONTROLS:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Site ID: 0902760
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 1
Operable Unit: 01
Action Completion Date: 12/31/1993
Actual Date: 11/24/1993
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Site ID: 0902760
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 2
Operable Unit: 02
Action Completion Date: 09/30/2005
Actual Date: 09/29/2005
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Site ID: 0902760
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 1
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US INST CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

Rev: 02/13/2020
ID/Status: CA4570024345

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Action Completion Date: 12/31/1993
Actual Date: 11/24/1993
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Site ID: 0902760
Action Name: GOVT Decision Document (ROD)
Action ID: 3
Operable Unit: 02
Action Completion Date: 06/30/1997
Actual Date: 06/25/1997
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

SIte:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
Event Code: Not reported
Action Taken Date: 09/29/2005
EPA ID: CA4570024345
Site ID: 0902760
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action ID: 2
Operable Unit: 02
Action Completion Date: 09/30/2005
Contaminated Media: Soil
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Media:
EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 3
Action Completion Date: 06/30/1997
Operable Unit: 02
Action Name: GOVT Decision Document (ROD)
Action Taken Date: 06/25/1997
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 2
Action Completion Date: 09/30/2005
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/29/2005
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 2
Action Completion Date: 09/30/2005
Operable Unit: 02

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/29/2005
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 2
Action Completion Date: 09/30/2005
Operable Unit: 02
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 09/29/2005
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 3
Action Completion Date: 06/30/1997
Operable Unit: 02
Action Name: GOVT Decision Document (ROD)
Action Taken Date: 06/25/1997
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Groundwater
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01
Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

EPA ID: CA4570024345
Contaminated Media: Soil
Site ID: 0902760
Action ID: 1
Action Completion Date: 12/31/1993
Operable Unit: 01

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

US ENG CONTROLS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 02/13/2020
ID/Status: CA4570024345
ID/Status: CA4570024345

Action Name: FF ROD (RCRA Statement of Basis/RTC)
Action Taken Date: 11/24/1993
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: USAF NORTON AFB
Facility address: 305 S TIPPECANOE AVE
SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Mailing address: 63RD CIV ENG SQU/DEEV
NORTON AFB, CA 92409
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Federal
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: MULTIPLE OPS - USAF & DPDO
Owner/operator address: US DEPT OF AIR FORCE NORTON
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 714-382-3909
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: US AIR FORCE
Owner/operator address: NORTON AFB
SAN BERNARDINO, CA 92409
Owner/operator country: Not reported
Owner/operator telephone: 714-382-3909
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1996-09-01 00:00:00.0
Site name: USAF NORTON AFB
Classification: Small Quantity Generator

Date form received by agency: 1996-03-11 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1994-03-28 00:00:00.0
Site name: USAF NORTON AFB
Classification: Large Quantity Generator

Date form received by agency: 1992-02-28 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1990-04-17 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF NORTON AFB
Classification: Large Quantity Generator

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Corrective Action Summary:
Event date: 1984-04-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1984-06-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1984-06-01 00:00:00.0
Event: RFA COMPLETED

Event date: 1984-06-01 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1989-07-13 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 1989-07-13 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1989-07-13 00:00:00.0
Event: CMS IMPOSITION

Event date: 1992-05-01 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 1993-02-05 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: 1993-02-05 00:00:00.0
Event: CMS COMPLETE

Event date: 1993-02-05 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 1993-02-05 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 1993-11-24 00:00:00.0
Event: REMEDY DECISION

Event date: 1993-11-24 00:00:00.0
Event: REMEDY DECISION

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Event date: 1994-10-07 00:00:00.0
Event: CORRECTIVE MEASURES DESIGN APPROVED

Event date: 1994-10-07 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 1995-06-01 00:00:00.0
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 1995-06-01 00:00:00.0
Event: REMEDY CONSTRUCTION

Event date: 1996-01-01 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: 1998-06-18 00:00:00.0
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 1998-06-18 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 1998-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

DATE

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 2003-04-22 00:00:00.0
Date achieved compliance: 2005-07-27 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2005-03-16 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Paid penalty amount: Not reported

Regulation violated: F - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Area of violation: TSD - General
Date violation determined: 1991-02-27 00:00:00.0
Date achieved compliance: 1991-05-16 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-04-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-10-30 00:00:00.0
Date achieved compliance: 1990-03-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-12-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-07-26 00:00:00.0
Date achieved compliance: 1989-10-30 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1987-06-23 00:00:00.0
Date achieved compliance: 1987-08-06 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1987-06-23 00:00:00.0
Date achieved compliance: 1987-08-06 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-08-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2017-04-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-04-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2015-04-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-06-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Evaluation lead agency: State

Evaluation date: 2007-04-11 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-04-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-06-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2003-04-22 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 2005-07-27 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-01-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-01-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-01-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-03-30 00:00:00.0

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1992-06-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1992-06-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1991-02-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-05-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-10-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-03-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-07-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1989-10-30 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1988-07-26 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-07-26 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-07-26 00:00:00.0

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

Rev: 03/23/2020
ID/Status: CA4570024345

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Evaluation lead agency: EPA

Evaluation date: 1987-07-30 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-07-30 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1987-06-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-06-23 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1987-08-06 00:00:00.0
Evaluation lead agency: State

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

RCRA-TSDF:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: USAF NORTON AFB
Facility address: 305 S TIPPECANOE AVE
SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Mailing address: 63RD CIV ENG SQU/DEEV
NORTON AFB, CA 92409
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Federal
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: MULTIPLE OPS - USAF & DPDO
Owner/operator address: US DEPT OF AIR FORCE NORTON
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: 714-382-3909
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: US AIR FORCE
Owner/operator address: NORTON AFB
SAN BERNARDINO, CA 92409
Owner/operator country: Not reported
Owner/operator telephone: 714-382-3909
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1996-09-01 00:00:00.0
Site name: USAF NORTON AFB
Classification: Small Quantity Generator

Date form received by agency: 1996-03-11 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1994-03-28 00:00:00.0
Site name: USAF NORTON AFB
Classification: Large Quantity Generator

Date form received by agency: 1992-02-28 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1990-04-17 00:00:00.0
Site name: NORTON AIR FORCE BASE
Classification: Large Quantity Generator

Date form received by agency: 1980-08-18 00:00:00.0
Site name: USAF NORTON AFB
Classification: Large Quantity Generator

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Corrective Action Summary:
Event date: 1984-04-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1984-06-01 00:00:00.0
Event: PA OR CERCLA INSPECTION

Event date: 1984-06-01 00:00:00.0
Event: RFA COMPLETED

Event date: 1984-06-01 00:00:00.0
Event: LEAD AGENCY DETERMINATION

Event date: 1989-07-13 00:00:00.0
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 1989-07-13 00:00:00.0
Event: INVESTIGATION IMPOSITION

Event date: 1989-07-13 00:00:00.0
Event: CMS IMPOSITION

Event date: 1992-05-01 00:00:00.0
Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 1993-02-05 00:00:00.0
Event: CMS WORKPLAN APPROVED

Event date: 1993-02-05 00:00:00.0
Event: CMS COMPLETE

Event date: 1993-02-05 00:00:00.0
Event: INVESTIGATION COMPLETE

Event date: 1993-02-05 00:00:00.0
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 1993-11-24 00:00:00.0
Event: REMEDY DECISION

Event date: 1993-11-24 00:00:00.0
Event: REMEDY DECISION

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Event date: 1994-10-07 00:00:00.0
Event: CORRECTIVE MEASURES DESIGN APPROVED

Event date: 1994-10-07 00:00:00.0
Event: CMI WORKPLAN APPROVED

Event date: 1995-06-01 00:00:00.0
Event: REMEDY CONSTRUCTION-REMEDY CONSTRUCTED

Event date: 1995-06-01 00:00:00.0
Event: REMEDY CONSTRUCTION

Event date: 1996-01-01 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY-REFERRED TO CERCLA

Event date: 1998-06-18 00:00:00.0
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 1998-06-18 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 1998-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 1998-06-18 00:00:00.0
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2000-05-22 00:00:00.0
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

DATE

Event date: 2000-05-22 00:00:00.0
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 2003-04-22 00:00:00.0
Date achieved compliance: 2005-07-27 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: 2005-03-16 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.190-201.J
Area of violation: TSD - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

- Continued on next page -

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 1993-04-22 00:00:00.0
Date achieved compliance: 1994-01-28 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-04-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Paid penalty amount: Not reported

Regulation violated: F - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 1992-05-15 00:00:00.0
Date achieved compliance: 1992-06-19 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Area of violation: TSD - General
Date violation determined: 1991-02-27 00:00:00.0
Date achieved compliance: 1991-05-16 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1991-04-12 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1989-10-30 00:00:00.0
Date achieved compliance: 1990-03-14 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1989-12-11 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1988-07-26 00:00:00.0
Date achieved compliance: 1989-10-30 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 1987-08-20 00:00:00.0
Date achieved compliance: 1988-07-26 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1987-06-23 00:00:00.0
Date achieved compliance: 1987-08-06 00:00:00.0
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 1987-06-23 00:00:00.0
Date achieved compliance: 1987-08-06 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1987-08-06 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2017-04-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2016-04-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2015-04-29 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2008-06-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Evaluation lead agency: State

Evaluation date: 2007-04-11 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-04-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2005-06-22 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2003-04-22 00:00:00.0
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 2005-07-27 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1994-01-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1994-01-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1994-01-28 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-03-30 00:00:00.0

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CA4570024345

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 1992-06-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1992-03-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1992-06-19 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1991-02-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1991-05-16 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1989-10-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1990-03-14 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1988-07-26 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1989-10-30 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 1988-07-26 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 1988-07-26 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 1987-08-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 1988-07-26 00:00:00.0

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-TSDF

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

Rev: 03/23/2020
ID/Status: CA4570024345

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Evaluation lead agency: EPA

Evaluation date: 1987-07-30 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-07-30 00:00:00.0
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 1987-06-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 1987-06-23 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 1987-08-06 00:00:00.0
Evaluation lead agency: State

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 03/23/2020
ID/Status: CA4570024345

CORRACTS:
Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA150
Actual Date: 1993-02-05 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA200
Actual Date: 1993-02-05 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA300
Actual Date: 1993-02-05 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 03/23/2020
ID/Status: CA4570024345

Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA350
Actual Date: 1993-02-05 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA500
Actual Date: 1994-10-07 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: CA725YE
Actual Date: 2000-05-22 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 03/23/2020
ID/Status: CA4570024345

City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: CA750NO
Actual Date: 2000-05-22 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: CA750YE
Actual Date: 1998-06-18 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY
Corrective Action: CA400
Actual Date: 1993-11-24 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: ENTIRE FACILITY

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 03/23/2020
ID/Status: CA4570024345

Corrective Action: CA550RC
Actual Date: 1995-06-01 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Region: 09
Name: USAF NORTON AFB
Address: 305 S TIPPECANOE AVE
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
Area Name: CENTRAL BASE AREA OU
Corrective Action: CA600GW
Actual Date: 1989-07-13 00:00:00.0
NAICS Code 1: Not reported
NAICS Code 2: 332813
NAICS Code 3: 92811
NAICS Code 4: 92811

Click this hyperlink while viewing on your computer to access
1 additional CORRACTS: record(s) in the EDR Site Report.

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

SEMS:
Site ID: 0902760
EPA ID: CA4570024345
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
Address 2: Not reported
City,State,Zip: SAN BERNARDINO, CA 92408
Cong District: 31,40
FIPS Code: 06071
Latitude: 34.098061
Longitude: -117.237200
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: CR
Action Name: CI
SEQ: 1
Start Date: 1987-09-30 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: CM
Action Name: PCOR
SEQ: 1
Start Date: 2006-05-16 04:00:00
Finish Date: 5/16/2006 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1988-06-01 04:00:00
Finish Date: 6/1/1988 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-04-30 04:00:00
Finish Date: 6/30/1994 4:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 2000-07-24 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: OM
Action Name: OM
SEQ: 2
Start Date: 1999-11-28 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS
SEQ: 1
Start Date: 1989-06-29 04:00:00
Finish Date: 11/24/1993 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 13
Start Date: 2004-02-02 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 14
Start Date: 2003-11-24 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 15
Start Date: 2003-12-17 05:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 16
Start Date: 2003-12-11 05:00:00
Finish Date: 12/3/2004 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 17
Start Date: 1996-09-20 04:00:00
Finish Date: 11/15/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 6
Start Date: 1996-03-25 05:00:00
Finish Date: 4/22/1997 4:00:00 AM
Qual: P
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 7
Start Date: 1996-04-25 04:00:00
Finish Date: 9/30/1999 4:00:00 AM
Qual: S
Current Action Lead: Fed Fac

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)
ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO
SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 8
Start Date: 1996-04-18 04:00:00
Finish Date: 12/19/1997 5:00:00 AM
Qual: P
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 9
Start Date: 1997-06-30 04:00:00
Finish Date: 12/8/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 11
Start Date: 1997-06-25 04:00:00
Finish Date: 12/8/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 12
Start Date: 1996-04-15 04:00:00
Finish Date: 7/22/1997 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1984-04-01 05:00:00
Finish Date: 4/1/1984 5:00:00 AM
Qual: H
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LW
Action Name: FF RI/FS
SEQ: 3
Start Date: 1998-10-01 04:00:00
Finish Date: 6/10/2003 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: RO
Action Name: ROD
SEQ: 2
Start Date: 2005-09-29 04:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: R
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: LX
Action Name: FF RD
SEQ: 1
Start Date: 1993-11-24 05:00:00
Finish Date: 9/16/1994 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 1984-10-15 04:00:00
Finish Date: 10/15/1984 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: EE
Action Name: EE/CA
SEQ: 1
Start Date: 1996-03-29 05:00:00
Finish Date: 3/29/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 1993-11-24 05:00:00
Finish Date: 11/24/1993 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 04:00:00
Finish Date: 8/1/1980 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: LV
Action Name: FF RV
SEQ: 1
Start Date: 1991-01-04 05:00:00
Finish Date: 4/8/1992 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: RO
Action Name: ROD
SEQ: 3
Start Date: 1997-06-25 04:00:00
Finish Date: 6/25/1997 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-04-01 05:00:00
Finish Date: 4/1/1984 5:00:00 AM
Qual: L
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 00
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 1987-07-22 04:00:00
Finish Date: 7/22/1987 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: LY
Action Name: FF RA
SEQ: 1
Start Date: 1994-09-16 04:00:00
Finish Date: 7/26/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 2
Start Date: 1995-12-21 05:00:00
Finish Date: 7/28/1999 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SEMS

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 0902760
ID/Status: CA4570024345

Region: 09
Site ID: 0902760
EPA ID: CA4570024345
Site Name: NORTON AIR FORCE BASE (LNDFLL #2)
NPL: F
FF: Y
OU: 01
Action Code: OM
Action Name: OM
SEQ: 1
Start Date: 1996-07-26 04:00:00
Finish Date: 12/21/2005 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

NPL

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 902760
ID/Status: CA4570024345

NPL:
Name: NORTON AIR FORCE BASE (LNDFLL #2)
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA 92408
EPA ID: CA4570024345
EPA Region: 9
Federal: Y
Final Date: 1987-07-22 00:00:00
Site ID: 902760
Latitude: 34.098061000000001
Site Score: 39.649999999999999
Longitude: -117.2372

NPL:
EPA ID: CA4570024345
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 80

EPA ID: CA4570024345
NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
EPA ID: CA4570024345
Site ID: 0902760
Site Status: F
Federal Site: Y
EPA Region: 09
Date Proposed: 10/15/84
Date Deleted: Not reported
Date Finalized: 07/22/87

NPL:
EPA ID: CA4570024345
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

EPA ID: CA4570024345

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

NPL

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 902760
ID/Status: CA4570024345

NPL Status: Currently on the Final NPL
Substance ID: U211
Substance: CARBON TETRACHLORIDE
CAS #: 56-23-5
Pathway: GROUND WATER PATHWAY
Scoring: 3

EPA ID: CA4570024345
NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL:
EPA ID: CA4570024345
Summary: Conditions at proposal October 15, 1984): Norton Air Force Base covers approximately 2,036 acres 58 miles east of Los Angeles near the City of San Bernardino, San Bernardino County, California. It is in a low-lying alluvial plain surrounded

EPA ID: CA4570024345
Summary: on characteri ation of the contamination at 18 on-base areas. More than 22 areas have been identified to date. Additional areas will be studied in Stage 3, scheduled to begin in the fall of 1987. Within the boundaries of this Federal fa

EPA ID: CA4570024345
Summary: cility, there are areas subject to the Subtitle C corrective action authorities of the Resource Conservation and Recovery Act RCRA). However, no such areas were included in scoring this specific site. Therefore, this Federal facility site is

EPA ID: CA4570024345
Summary: being placed on the Federal section of the NPL under the NPL/RCRA policy announced on September 8, 1983 48 FR 40662).

EPA ID: CA4570024345
Summary: on the north and east by the San Bernardino Mountain Range. The base began operations in 1942 and has served as a major overhaul center for jet engines and the general repair of aircraft. Since 1962, the facility has served as a Military Airli

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

NPL

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 902760
ID/Status: CA4570024345

EPA ID: CA4570024345
Summary: ft Command Base. In addition, Norton formerly had the responsibility for providing maintenance and logistics for liquid-fuel intercontinental ballistic missiles. Past ha ardous waste management practices may have contributed to existing

EPA ID: CA4570024345
Summary: contamination problems throughout the base. The practices include burial of drums and other unspecified materials; disposal of waste oils, solvents, and paint residues into landfills, unlined pits, ponds, and drying beds; storage in leaking un

EPA ID: CA4570024345
Summary: derground tanks; and spills of AVGAS, oils, solvents, PCBs, and acidic plating solutions. Industrial solvents have been used extensively on the base. Unknown quantities of spent solvents were disposed of in several base landfills.

EPA ID: CA4570024345
Summary: A well on the base has been contaminated with trichloroethylene TCE). The well water is currently being used in a blended system and is sampled quarterly to ensure that TCE is below the California State action level. The water is used by appr

EPA ID: CA4570024345
Summary: oximately ll,000 people who live and/or work on the base. Norton Air Force Base is participating in the Installation Restoration Program IRP), established in l978. Under this program, the Department of Defense seeks to identify, investi

EPA ID: CA4570024345
Summary: gate, and clean up contamination from ha ardous materials. The Air Force has completed Phase I records search). Phase II remedial investigation) is underway. Status July 22, 1987): In November 1986, the California Regional Water Qua

EPA ID: CA4570024345
Summary: lity Control Board issued a Cleanup and Abatement Order requiring Norton to clean up one on-base area, the Industrial Waste Water Treatment Plant Sludge Drying Beds. Phase II-Stage 2 of the IRP was completed in December 1986. It focused

NPL:
EPA ID: CA4570024345

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

NPL

EDR ID: 1000417274 **DIST/DIR:** 0.050 South **ELEVATION:** **MAP ID:** 0

NAME: NORTON AIR FORCE BASE (LNDFLL #2)

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US EPA

Rev: 04/27/2020
ID/Status: 902760
ID/Status: CA4570024345

NPL Status: Final
Proposed Date: 10/15/1984
Final Date: 07/22/1987
Deleted Date: Not reported

NPL:
EPA ID: CA4570024345
NPL Name: NORTON AIR FORCE BASE (LNDFLL #2)

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA NonGen / NLR

EDR ID: 1025854832 **DIST/DIR:** 0.049 ENE **ELEVATION:** 1165 **MAP ID:** 1

NAME: JOSE HUIZAR
ADDRESS: 26875 4TH PL
HIGHLAND, CA 92346
SAN BERNARDINO
SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CAC003035088

RCRA NonGen / NLR:
Date form received by agency: 2019-09-22 00:00:00.0
Facility name: JOSE HUIZAR
Facility address: 26875 4TH PL
HIGHLAND, CA 92346-4105
EPA ID: CAC003035088
Contact: JOSE HUIZAR
Contact address: 26875 4TH PL
HIGHLAND, CA 92346-4105
Contact country: Not reported
Contact telephone: 951-634-5029
Contact email: FAVILA@BURNS-ENVIRO.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JOSE HUIZAR
Owner/operator address: 26875 4TH PL
HIGHLAND, CA 92346
Owner/operator country: Not reported
Owner/operator telephone: 951-634-5029
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JOSE HUIZAR
Owner/operator address: 26875 4TH PL
HIGHLAND, CA 92346
Owner/operator country: Not reported
Owner/operator telephone: 951-634-5029
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA NonGen / NLR

EDR ID: 1025854832 **DIST/DIR:** 0.049 ENE **ELEVATION:** 1165 **MAP ID:** 1

NAME: JOSE HUIZAR

ADDRESS: 26875 4TH PL
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CAC003035088

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Not reported
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1009216575 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A2

NAME: WYLE LABS SBO EAST DEPT 551

Rev: 03/23/2020
ID/Status: CAR000169649

ADDRESS: 3505 E 3RD ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

RCRA-SQG:
Date form received by agency: 2005-12-14 00:00:00.0
Facility name: WYLE LABS SBO EAST DEPT 551
Facility address: 3505 E 3RD ST
SAN BERNARDINO, CA 92408
EPA ID: CAR000169649
Mailing address: 244 S LELAND NORTON WAY
SAN BERNARDINO, CA 92408
Contact: JEFF GLENN
Contact address: 244 S LELAND NORTON WAY
SAN BERNARDINO, CA 92408
Contact country: US
Contact telephone: 909-382-2323
Contact email: JEFF.GLENN@WYLELABS.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: DOUG ANDERSON
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2004-12-08 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: SAN BERNARDINO INTL AIRPORT AUTHORITY
Owner/operator address: 294 S LELAND NORTON WAY SUITE 1
SAN BERNARDINO, CA 92408
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1009216575 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A2

NAME: WYLE LABS SBO EAST DEPT 551

ADDRESS: 3505 E 3RD ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CAR000169649

Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 2000-09-13 00:00:00.
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1009216575 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A2

NAME: WYLE LABS SBO EAST DEPT 551

Rev: 03/23/2020
ID/Status: CAR000169649

ADDRESS: 3505 E 3RD ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Violation Status: No violations found

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

San Bern. Co. Permit

EDR ID: S108758180 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A3

NAME: WYLE LABS EAST TEST SITE DEPT #551

ADDRESS: 3505 E 3RD ST
SAN BERNARDINO, CA 92408

Rev: 02/25/2020
ID/Status: FA0010413
ID/Status: INACTIVE

SOURCE: CA San Bernardino County Fire Department Hazardous Materials Division

San Bern. Co. Permit:
Name: WYLE LABS EAST TEST SITE DEPT #551
Address: 3505 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0010413
Owner: WYLE LABORATORIES, INC.
Permit Number: PT0021934
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: INACTIVE
Expiration Date: 05/31/2016

Name: WYLE LABS EAST TEST SITE DEPT #551
Address: 3505 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0010413
Owner: WYLE LABORATORIES, INC.
Permit Number: PT0017718
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 05/31/2016

Name: WYLE LABS EAST TEST SITE DEPT #551
Address: 3505 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0010413
Owner: WYLE LABORATORIES, INC.
Permit Number: PT0017717
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2016

Name: WYLE LABS EAST TEST SITE DEPT #551
Address: 3505 E 3RD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0010413
Owner: WYLE LABORATORIES, INC.
Permit Number: PT0025553
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 05/31/2014

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

San Bern. Co. Permit

EDR ID: S117896923 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A4

NAME: NATIONAL TECHNICAL SYSTEMS

ADDRESS: 3505 E THIRD ST
SAN BERNARDINO, CA 92408

Rev: 02/25/2020
ID/Status: FA0016030
ID/Status: ACTIVE

SOURCE: CA San Bernardino County Fire Department Hazardous Materials Division

San Bern. Co. Permit:
Name: NATIONAL TECHNICAL SYSTEMS
Address: 3505 E THIRD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0016030
Owner: National Technical Systems
Permit Number: PT0034693
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 04/30/2020

Name: NATIONAL TECHNICAL SYSTEMS
Address: 3505 E THIRD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0016030
Owner: National Technical Systems
Permit Number: PT0034697
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 04/30/2020

Name: NATIONAL TECHNICAL SYSTEMS
Address: 3505 E THIRD ST
City,State,Zip: SAN BERNARDINO, CA 92408
Region: SAN BERNARDINO
Facility ID: FA0016030
Owner: National Technical Systems
Permit Number: PT0034696
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 04/30/2020

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA NonGen / NLR

EDR ID: 1024845186 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A5

NAME: NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS **Rev:** 03/23/2020
ID/Status: CAL000398078

ADDRESS: 3505 E THIRD ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

RCRA NonGen / NLR:
Date form received by agency: 2014-06-24 00:00:00.0
Facility name: NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS
Facility address: 3505 E THIRD ST
SAN BERNARDINO, CA 92408
EPA ID: CAL000398078
Mailing address: 3505 E. THIRD ST.
SAN BERNARDINO, CA 92408-0000
Contact: RICHARD JOHNSON
Contact address: 3505 E. THIRD ST
SAN BERNARDINO, CA 92408
Contact country: Not reported
Contact telephone: 909-289-6716
Contact email: RICHARD.JOHNSON@NTS.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RICHARD JOHNSON
Owner/operator address: 3505 E. THIRD ST
SAN BERNARDINO, CA 92408
Owner/operator country: Not reported
Owner/operator telephone: 909-289-6716
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NATIONAL TECHNICAL SYSTEMS
Owner/operator address: 24007 VENTURA BLVD. STE. 200
CALABASAS, CA 91302
Owner/operator country: Not reported
Owner/operator telephone: 818-591-0776
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA NonGen / NLR

EDR ID: 1024845186 **DIST/DIR:** 0.076 ESE **ELEVATION:** 1166 **MAP ID:** A5

NAME: NATIONAL TECHNICAL SYSTEMS SAN BERNARDINO OPERATIONS **Rev:** 03/23/2020
ID/Status: CAL000398078

ADDRESS: 3505 E THIRD ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

SWF/LF

EDR ID: S105247958 **DIST/DIR:** 0.197 SE **ELEVATION:** 1171 **MAP ID:** 6

NAME: NORTON AFB LANDFILL

ADDRESS: I-10/US 395 FORMER NORTON AFB
SAN BERNARDINO, CA
SAN BERNARDINO

SOURCE: CA Department of Resources Recycling and Recovery

Rev: 05/11/2020
ID/Status: Closed
ID/Status: Unpermitted
ID/Status: 36-AA-0312

SWF/LF (SWIS):
Name: NORTON AFB LANDFILL
Address: I-10/US 395 FORMER NORTON AFB
City,State,Zip: SAN BERNARDINO, CA
Facility ID: 36-AA-0312
Lat/Long: 34.10517 / -117.21563
Owner Name: US Dept Of Air Force-Norton Afb
Owner Telephone: 9093822444
Owner Address: Not reported
Owner Address2: Headqrtrs Co3d Combat Support Grp (Mac)
Owner City,St,Zip: Norton Afb, CA 92409
Operational Status: Closed
Operator: Not reported
Operator Phone: Not reported
Operator Address: Not reported
Operator Address2: Not reported
Operator City,St,Zip: Not reported
Permit Date: Not reported
Permit Status: Not reported
Permitted Acreage: $0.00
Activity: Solid Waste Disposal Site
Regulation Status: Unpermitted
Landuse Name: Commercial
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Semiannual
Accepted Waste: Not reported
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: $0.00
SWIS Num: 36-AA-0312
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 34.10517 / -117.21563

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000472844 **DIST/DIR:** 0.210 ENE **ELEVATION:** 1174 **MAP ID:** 7

NAME: MAYFLOWER CONTRACT SERVICES

Rev: 03/23/2020
ID/Status: CAD982433757

ADDRESS: 26999 E 5TH STREET
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

RCRA-SQG:
Date form received by agency: 1996-09-01 00:00:00.0
Facility name: MAYFLOWER CONTRACT SERVICES
Facility address: 26999 E 5TH STREET
HIGHLAND, CA 92346
EPA ID: CAD982433757
Mailing address: P O BOX 682
HIGHLAND, CA 92346
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MAYFLOWER CONTRACT SERV
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1000472844 **DIST/DIR:** 0.210 ENE **ELEVATION:** 1174 **MAP ID:** 7

NAME: MAYFLOWER CONTRACT SERVICES

Rev: 03/23/2020
ID/Status: CAD982433757

ADDRESS: 26999 E 5TH STREET
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1990-10-15 00:00:00.0
Site name: MAYFLOWER CONTRACT SERVICES
Classification: Large Quantity Generator

Violation Status: No violations found

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1004675453 **DIST/DIR:** 0.235 SSW **ELEVATION:** 1158 **MAP ID:** 8

NAME: SAN BERNARDINO COUNTY FIRE DEPT

ADDRESS: 2824 E W ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Rev: 03/23/2020
ID/Status: CAR000073072

RCRA-SQG:
Date form received by agency: 2000-05-10 00:00:00.0
Facility name: SAN BERNARDINO COUNTY FIRE DEPT
Facility address: 2824 E W ST
NORTON A F B S B INTL AIRPORT
SAN BERNARDINO, CA 92408
EPA ID: CAR000073072
Contact: DAVE THOMPSON
Contact address: 2824 E W ST NORTON A F B S B INTL AIRPORT
SAN BERNARDINO, CA 92408
Contact country: US
Contact telephone: 909-388-4211
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: COUNTY OF SAN BERNARDINO FIRE
Owner/operator address: 157 W FIFTH ST
SAN BERNARDINO, CA 92415
Owner/operator country: Not reported
Owner/operator telephone: 909-387-5958
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

RCRA-SQG

EDR ID: 1004675453 **DIST/DIR:** 0.235 SSW **ELEVATION:** 1158 **MAP ID:** 8

NAME: SAN BERNARDINO COUNTY FIRE DEPT

Rev: 03/23/2020
ID/Status: CAR000073072

ADDRESS: 2824 E W ST
SAN BERNARDINO, CA 92408
SAN BERNARDINO

SOURCE: US Environmental Protection Agency

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D000
. Waste name: Not Defined

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S103672465 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B9

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 04/27/2020
ID/Status: 80001784
ID/Status: No Further Action

ADDRESS: 7979 PALM AVE #E
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

ENVIROSTOR:
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVE #E
City,State,Zip: HIGHLAND, CA 923460000
Facility ID: 80001784
Status: No Further Action
Status Date: 09/09/2010
Site Code: 400247
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 1.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Not reported
Supervisor: * John Geroch
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.10682
Longitude: -117.2082
APN: NONE SPECIFIED
Past Use: DISTRIBUTOR - CHEMICAL
Potential COC: TPH-Stoddard Solvent
Confirmed COC: TPH-Stoddard Solvent
Potential Description: SOIL
Alias Name: CAT000613927
Alias Type: EPA Identification Number
Alias Name: 110000786007
Alias Type: EPA (FRS #)
Alias Name: 400247
Alias Type: Project Code (Site Code)
Alias Name: 80001784
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 06/09/1995
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S103672465 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B9

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 04/27/2020
ID/Status: 80001784
ID/Status: No Further Action

ADDRESS: 7979 PALM AVE #E
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type: RFI Report
Completed Date: 09/12/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 03/29/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 02/09/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 10/24/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 03/17/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 03/15/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/25/1991
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Completed Document Type: * Historical Operating Permit Authority

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S103672465 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B9

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 04/27/2020
ID/Status: 80001784
ID/Status: No Further Action

ADDRESS: 7979 PALM AVE #E
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Completed Date: 07/29/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 02/16/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 06/30/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Construction Complete
Completed Date: 06/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 06/09/2010
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

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1015732922 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B10

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 03/23/2020
ID/Status: CAT000613927

ADDRESS: 7979 PALM AVENUE
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US EPA

CORRACTS:
Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA050
Actual Date: 1992-03-15 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA070YE
Actual Date: 1992-03-15 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA150
Actual Date: 1996-03-29 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1015732922 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B10

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 03/23/2020
ID/Status: CAT000613927

ADDRESS: 7979 PALM AVENUE
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US EPA

Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: AREA ENCOMPASSING PREVIOUS U S TS
Corrective Action: CA200
Actual Date: 2000-09-12 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA225NR
Actual Date: 1993-03-17 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA200
Actual Date: 1995-06-09 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

CORRACTS

EDR ID: 1015732922 **DIST/DIR:** 0.596 East **ELEVATION:** 1199 **MAP ID:** B10

NAME: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER **Rev:** 03/23/2020
ID/Status: CAT000613927

ADDRESS: 7979 PALM AVENUE
HIGHLAND, CA 92346
SAN BERNARDINO

SOURCE: US EPA

City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA550RC
Actual Date: 2010-06-09 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA725YE
Actual Date: 2010-06-09 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Region: 09
Name: SAFETY-KLEEN SYSTEMS INC HIGHLAND SERVICE CENTER
Address: 7979 PALM AVENUE
Address 2: Not reported
City,State,Zip: HIGHLAND, CA 92346-0000
EPA ID: CAT000613927
Area Name: ENTIRE FACILITY
Corrective Action: CA750YE
Actual Date: 2010-06-09 00:00:00.0
NAICS Code 1: 562112
NAICS Code 2: Not reported
NAICS Code 3: Not reported
NAICS Code 4: Not reported

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

ENVIROSTOR:
Name: NORTON AIR FORCE BASE
Address: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
City,State,Zip: SAN BERNARDINO, CA 92409
Facility ID: 36970004
Status: Active
Status Date: 05/01/1986
Site Code: 401403
Site Type: Federal Superfund
Site Type Detailed: Closed Base
Acres: 2179
NPL: YES
Regulatory Agencies: SMBRP, RWQCB 8 - Santa Ana, US EPA
Lead Agency: US EPA
Program Manager: Stephen Niou
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: DSMOA
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: BRAC 88
Latitude: 34.0966
Longitude: -117.2478
APN: NONE SPECIFIED
Past Use: AIRCRAFT MAINTENANCE, AIRFIELD OPERATIONS, DAY CARE FACILITY, DEGREASING FACILITY, DRY CLEANING, ENGINE TESTING/REPAIR, FIRE TRAINING AREAS, FIRING RANGE - SMALL ARMS ETC..., FUEL - AIRCRAFT STORAGE/ REFUELING, JET FUEL STORAGE/REFUELING, LANDFILL - DOMESTIC, MACHINE SHOP, OIL/WATER SEPARATORS, PAINT/DEPAINT FACILITY, PHOTOGRAPHIC PROCESSING, RESIDENTIAL AREA, TRANSPORTATION - WAREHOUSING, WASTE - INDUSTRIAL TREATMENT FACILITY, WASTE - INDUSTRIAL WASTE LINE, WASTE WATER PONDS
Potential COC: * Metals - Sludge * Sludge - Paint Dioxin (as 2,3,7,8-TCDD TEQ Lead Methane Polynuclear aromatic hydrocarbons (PAHs TPH-JET FUEL Trichloroethylene (TCE
Confirmed COC: Dioxin (as 2,3,7,8-TCDD TEQ Lead Methane Polynuclear aromatic hydrocarbons (PAHs Trichloroethylene (TCE TPH-JET FUEL
Potential Description: AQUI, OTH, SOIL, WELL
Alias Name: CA4570024345
Alias Type: EPA Identification Number
Alias Name: 110033605908
Alias Type: EPA (FRS #)

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Alias Name: DOD100360700
Alias Type: GeoTracker Global ID
Alias Name: DOD100364300
Alias Type: GeoTracker Global ID
Alias Name: SLT8R1744169
Alias Type: GeoTracker Global ID
Alias Name: T10000007307
Alias Type: GeoTracker Global ID
Alias Name: P42053
Alias Type: PCode
Alias Name: 11671
Alias Type: RB-PCA
Alias Name: 400108
Alias Type: Project Code (Site Code)
Alias Name: 401403
Alias Type: Project Code (Site Code)
Alias Name: 36970004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-L
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/30/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K3
Completed Document Type: Finding of Suitability to Lease
Completed Date: 05/05/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Sub Area Name: P-K3
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: UTILS
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/16/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Finding of Suitability to Lease
Completed Date: 02/16/1995
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: * Order
Completed Date: 04/14/1995
Comments: BUILDING 658 CLEANUP OF SHALLOW SUBSTANCE TRICHLOROETHYLENE (TCE) CONTAMINATED SOILS BY EX-SITU SOIL VAPOR EXTRATION. THIS ACTIVITY IS THE ONE OF THE SELECTED REMEDIES DESCRIBED IN THE NOVEMBER 24, 1993, CENTRAL BASE AREA OPERABLE UNIT RECORD OF DECISION (ROD), SECTION 9.2.2. THE NOVEMBER 18, 19 ENGINEERING DESIGN REPORT DESCRIBED THE REMEDIAL ACTIONS TO BE IMPLEMENTED AT BUILDING 658. THESE ACTIONS CONSIST OF: EXCAVATION OF TCE-CONTAMINATED SOIL AT BUILDING 658, AND REMOVAL OF A SUMP AND ASSOCIATION APPURTENANCES; TRANSPORT OF THE SOIL FROM BUILDING 658 TO A ON-BASE LOCATION; CONSTRUCTION OF AN EX-SITU TREATMENT CELL AND VAPOR ABATEMENT SYSTEM TO REMEDIATE THE EXCAVATED SOIL USING VAPOR EXTRATION; OPERATION OF THE EX-SITU TREATMENT SYSTEM UNTIL TCE CONCENTRATIONS ARE BELOW LEVELS PRESCRIBED IN THE ROD; AND SITE RESTORATION, INCLUDING BACKFILL OF THE EXCAVATION AND RESURFACING OF THE DISTURBED AREA. RESULT OF THE CONFIRMATION SAMPLING DID NOT DETECT ANY CONCENTRATIONS ABOVE THE CLEANUP STANDARD (5UG/L IN LEACHATE ANALYZED BY THE TOXIC CHARACTERISTICS LEACHING PROCEDURE (TCP)). ORDER Installation Restoration Program (IRP) Site 5 is the former fire training area. Soils at IRP Site 5 are contaminated with hydrocarbons, dioxins, metals, and polynuclear aromatic hydrocarbons (PAHs). The proposed remedial actions will meet industrial reuse and groundwater protection based Target Cleanup Goals (TCGs) and will consist of: - Soil Vapor Extraction (SVE), including activated carbon treatment of extracted vapors, to reduce hydrocarbon contam- ination in site soils

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ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

to below groundwater protection based TCGs; - Excavation and offsite landfill disposal of soils contain- ing dioxin concentrations in excess of industrial reuse TCGs at a licensed Subtitle C disposal facility permitted to accept dioxin-contaminated soils; - Excavation, stabilization, and transport to IRP Site 2 Landfill (to be used as fill material for landfill closure cap) of metal- and PAH-contaminated soil above the indus- trial reuse TCGs; - Excavation and transport to IRP Site 2 (without stabil- ization), of metal- and PAH-contaminated soils above the industrial reuse TCGs and classified as California nonhazardous. VOLUME TREATED, STABILIZED, OR DISPOSED: Approximately 6000 cubic yards APPROXIMATE COST: $500,000

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GW
Completed Document Type: * CEQA
Completed Date: 11/25/1991
Comments: A Negative Declaration was filed with the State clearing House on 10/5/91. A notice if determination was filed with the San Bernardino County Clerk for the pump & treat system for the central base area.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Federal Facility Agreement
Completed Date: 06/29/1989
Comments: Federal Facility Agreement (FFA) between Air Force, USEPA, and DHS Toxic Substances Control Division was signed.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWTP
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/12/2006
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Land Use Restriction
Completed Date: 09/17/2007
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Site 2
Completed Document Type: Land Use Restriction
Completed Date: 09/20/2007
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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Completed Area Name: * BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Land Use Restriction
Completed Date: 09/17/2007
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: STE19
Completed Document Type: Land Use Restriction
Completed Date: 08/31/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/20/2007
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: UTILS
Completed Document Type: Environmental Baseline Survey
Completed Date: 02/09/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-J1
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: CBA-S
Completed Document Type: * Remedial or Removal Design
Completed Date: 12/07/1994
Comments: DES - CBA-S -- Design for contaminated soils within the Centra Base Area (CBA). This design describes the engineering design components of remedial actions at Building 658 and IRP Site 9 located in the TCE source areas of the CBA-OU. The selected remedies consist of excavation and exsitu vapor extraction for TCE impacted soils at

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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Rev: 04/27/2020
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Building 658 and excavation and off-site stabilization and disposal for TCE and chromium impacted soils from IRP Site 9. Approximate cost = 300,000; funding = BRAC.

Completed Area Name: OU3
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/01/1994
Comments: PEA - OU3 -- DTSC approved the PEA on December 1, 1994. This PEA resulted in the identification of 19 locations with sufficient evidence of contamination that warranted more thorough investigation of the extent of contamination. Approximate cost = 1,100,000; funding = BRAC.

Completed Area Name: CBA
Completed Sub Area Name: CBAGW
Completed Document Type: * Remedial or Removal Design
Completed Date: 10/07/1994
Comments: DES - CBAGW -- MODIFICATION - The design consists of modifications to the existent Central Base Area (CBA) pump and treat system to increase its capacity from 200 gallons per minute (gpm) to 400 gpm. The modifications are: addition of four new extraction wells and three new injection wells; replace 4-inch piping with 6-inch piping as required inside the treatment system area; replace existing centrifugal transfer pumps with larger pumps; operate the liquid phase carbon units in a parallel mode; addition of new in-line filters; addition of a new in-line sand separator; and installation of pipeline from the new extraction wells and injection wells to the treatment plant area; install new pipeline from new injection wells and tie-in to the existing injection well pipeline. Approximate cost = 336,000; funding = BRAC.

Completed Area Name: CBA
Completed Sub Area Name: CBAGW
Completed Document Type: * Remedial or Removal Design
Completed Date: 09/21/1994
Comments: DES - CBAGW -- Central Base Area Groundwater (CBAGW) pump and treat system. The pump and treat system includes a new extraction well (to supplement the two existing wells), eight injection wells, a groundwater treatment plant, and pipelines to transport the water among the wells and the treatment plant. The groundwater will be treated by packed tower air strippers. As mandated in the Record of Decision dated November 24, 1993, this system will "maintain hydraulic control to the extent possible of the plume while extracting contaminated groundwater, and reinjecting treated

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ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

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groundwater into the contaminant plume or the clean portion of the aquifer." Approximate cost = $700,000; funding = BRAC.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IRP15
Completed Document Type: Feasibility Study Report
Completed Date: 06/05/1994
Comments: RI/FS - IRP15 -- DTSC approved the Remediation Investigation/Feasibility Study for IRP15 on June 5, 1994. Approximate cost = $4,000,000; funding = BRAC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Community Environmental Response Facilitation Act
Completed Date: 04/19/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/23/1993
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Feasibility Study Report
Completed Date: 02/05/1993
Comments: Final FS for the Central Base Area (CBA) OU was approved. The CBA OU is OU#1 which addresses groundwater contamination and all sources.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GW
Completed Document Type: Removal Action Completion Report
Completed Date: 12/02/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Engineering Evaluation / Cost Analysis
Completed Date: 08/12/1991
Comments: Filed Neg. Dec. with State clearing house in comp. w/ CEQA

Completed Area Name: CBA
Completed Sub Area Name: B#763
Completed Document Type: Removal Action Completion Report

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

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Rev: 04/27/2020
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ID/Status: Active

Completed Date: 06/27/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 01/30/1990
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: STE10
Completed Document Type: Remedial Action Plan
Completed Date: 11/20/2003
Comments: RAP - SITE 10 (Removal action at Site 10 and 12): Following the finalization of Basewide Feasibility Study Report, the AF issued this document for conducting soil removal at these sites to accelerate cleanup actions at the former Norton AFB. Because of the endangered species, the AF will conduct formal consultation with US Fish and Wildlife and obtain permits from California Dept. of Fish and Game. The detected contamination is within four feet of ground surface, the AF will restrict depth of excavation accordingly. Also, because part of Site 10 is now potions of a golf course, part of the golf course will be closed during the removal action. Excavated soil will be profiled and sent to a regulated landfill. Once the removal action is complete, no further remedial actions are anticipated at these sites.

Completed Area Name: * BASEWIDE
Completed Sub Area Name: STE10
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 01/27/2004
Comments: RAW - STE10: Because of the San Bernadino Kangaroo Rat, the Air Force will trap and relocate the animals and set up fences to prevent burrowing animals from crawling back into the excavation area during removal. The Air Force will remove the top two feet of soil and then depending on the presence of ash layers and fieldscreening sampling results to determine whether additional two feet of soil will be removed or not. After excavation, the AF will take confirmation soil samples and analyze them for dioxins/furans and metals. If excessive contamination remains, excavation will resume. Once the removal action is complete, the AF will restore the site to pre-excavation conditions.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SSWR
Completed Document Type: Environmental Baseline Survey

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Date: 08/31/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: C1
Completed Document Type: Environmental Baseline Survey
Completed Date: 08/30/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SSWR
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/31/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: C1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 08/30/1999
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Site 2
Completed Document Type: Removal Action Completion Report
Completed Date: 07/21/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PL-C1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/15/1999
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SAR
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: RA - SAR: Between July and October 1997 Earth Tech, a remedial contractor hired by the Air Force excavated, treated and disposed of lead contaminated soils down to 2 feet bgs at the base of the SAR and 4 feet into the impact berm. A total of 11,478 tons of soil was excavated and processed at IRP Site 2. Of this amount 210 tons were bullet fragments and small rocks which were classified as RCRA Hazardous waste and were disposed of offsite at Laidlaw Environmental Services landfill in Westmoreland, California. Approximately 2,100

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ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

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tons were stabilized by adding 15% Portland Cement and processing through a pug mill. None of the stabilized soil met the treatment standard so all of it was sent offsite to Browning Ferris Industries (BFI) landfill in La Paz, Arizona as a California hazardous, non-RCRA waste.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1
Completed Document Type: Environmental Baseline Survey
Completed Date: 02/10/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1999
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: ste10
Completed Document Type: Removal Action Completion Report
Completed Date: 10/29/1998
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: AOC70
Completed Document Type: Removal Action Completion Report
Completed Date: 10/29/1998
Comments: RA - AOC70: The Removal Action goal for AOC 70 was to excavate and remove soil containing contaminants of concern: PCBs, benzo(a pyrene, benzo(b)flouranthene, benzo(k)-flouranthene, TPH-diesel and TPH-gasoline at depths up to 10 feet. Approximately 1632 cubic yards of material was excavated, treated and disposed off- site. Confirmation samples were then taken, analyzed and the determination was made that the objectives were met. The area was then backfilled with clean fill and graded. ‘ RA - IRP10: The Removal Action goal for IRP Site 10 was to excavate and remove soil containing contaminants of concern: lead arsenic and chromium at depths up to three feet or one foot below the ash layer, as this was the zone of ecological risk. Approx. 224 cubic yards of non-hazardous material was disposed of at the base landfill, IRP Site 2 and approximately 116 cubic yards of potentially hazardous waste were excavated and disposed off site. Confirmation samples were then taken, analyzed and the determination was made that the objectives were met. The area was then backfilled with clean fill and graded.

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 06/23/2003
Comments: RIFS - BSWD: The BCT has disputed on the implementation of institutional control in 1999. While the resolution state that the AF will issue post-ROD primary documents to specify IC requirements, the revised BSWD FS denied such a commitment and states that ICs are AF's voluntary acts. The implementation of ICs shouldn't be overseeing by regulatory agencies. After much discussion EPA, DTSC, RWQCB, and the AF agreed to postpone the dispute of IC implementation until the draft ROD is issued. The regulatiory agencies thus approved the proposed remedies for the sites included in this BSWD FS.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-2A
Completed Document Type: Environmental Baseline Survey
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-1
Completed Document Type: Environmental Baseline Survey
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-2A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: E-1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/16/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE17
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 05/07/1998
Comments: Not reported

Completed Area Name: * BASEWIDE

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

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Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Sub Area Name: SITE2
Completed Document Type: * Remedial or Removal Design
Completed Date: 12/29/1997
Comments: DES - SITE2: As a result of trenching activities and in accordance with Title 27, California Code of Regulations, the intent of this plan is to upgrade waste management units to closure standards established in regulations. This activity is equivalent to a RAP since it will cost approxi- mately $13,700,000.00. The public and regulatory agencies have had an opportunity to comment and all comments have been adeguately addressed by the PRP. Activities which will take place from February 1998 to December 1998 include: landfill gas extraction and treatment, waste consolidation of approximately 120,000 cubic yards from the northeast, confirmation sampling of consolidated material, a monolithic cover, drainage control, groundwater monitoring and long term operation and maintenance activities.

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Remedial Action Plan
Completed Date: 12/29/1997
Comments: RAP - SITE2: As a result of trenching activities and in accordance with Title 27, California Code of Regulations, the intent of this plan is to upgrade waste management units to closure standards established in regulations. This activity is equivalent to a RAP since it will cost approxim- ately $ 13,700,000.00. The public and regulatory agencies have had an opportunity to comment and all comments have been adequately addressed by the PRP. Activities which will take place from February 1998 to December 1998 include: landfill gas extraction and treatment, waste consolidation of approximately 120,000 cubic yards from the northeast, confirmation sampling of consolidated material, a monolithic, cover, drainage control, groundwater monitoring and long term operation and maintenance activities.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P1-3A
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/23/1998
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P1-3A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/23/1998

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: Removal Action Completion Report
Completed Date: 12/29/1997
Comments: RA - SITE1: A removal action was implemented as a result of an Actrion Memorandum completed in March 1996. the removal action was implemented in two phases between November 1996 and July 1997. A total of approximately 20,900 tons of soils exceeding cleanup levels were excavated and disposed of off- base at an appropriate facility. Approximately 3,800 square feet of material above the cleanup levels were left in place as they were not extractable during the removal effort. The excavation was subsequently back filled and the graded to its original levels. In addition, three new monitoring wells were installed for monitoring purposes. A Long Term Ground- water Monitoring plan will be implemented as a result of leaving matreials in place.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST5SV
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST5SO
Completed Document Type: Removal Action Completion Report
Completed Date: 06/09/1999
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E2

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

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ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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ID/Status: 36970004
ID/Status: Active

Completed Document Type: Environmental Baseline Survey
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E1
Completed Document Type: Environmental Baseline Survey
Completed Date: 06/02/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 6AOCS
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: 6AOCS
Completed Document Type: Feasibility Study Report
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AOC73
Completed Document Type: Removal Action Completion Report
Completed Date: 06/23/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AOC38
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: AOC37
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SITE8
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: RA - SITE 8: The removal actions involved the excavation and disposal

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Site Detail Report

Target Property: 26816 3RD STREET
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JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

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ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
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of 1,553 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan. RA - AOC37: The removal actions involved the excavation and disposal of 8,925 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan. RA - AOC38: The removal actions involved the excavation and disposal of 1,603 cubic yards of contaminated soil either to an offsite disposal facility, if hazardous, or to IRP Site 2. Verification sampling was conducted to document that target cleanup goals (TCGS) identified in the Final Action Memoran- dum were achieved. Site restoration was also performed. Confirmation surface soil samples were collected from the excavations to assess if cleanup goals had been attained, in accordance with the Work Plan.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE14
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/27/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT13
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E4
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-E4
Completed Document Type: Finding of Suitability to Transfer

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Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I1A
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/18/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B1234
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/15/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-A
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/15/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: B1234
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/12/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-A
Completed Document Type: Environmental Baseline Survey
Completed Date: 05/12/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT20
Completed Document Type: Feasibility Study Report
Completed Date: 07/23/1996
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NCO-H
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/08/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NCO-H
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/11/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: OFFCR
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/08/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: OFFCR
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/11/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K4
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K4
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K2
Completed Document Type: Finding of Suitability to Transfer

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K2
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-J1
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 12/18/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I3
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I3
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-I2
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/13/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-K3
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-H
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 02/10/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-H
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-F
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 01/20/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-F
Completed Document Type: Environmental Baseline Survey
Completed Date: 12/03/1996
Comments: Not reported

Completed Area Name: OU2&3
Completed Sub Area Name: BBP&T
Completed Document Type: Operations and Maintenance Plan
Completed Date: 10/28/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: EXPOR
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 09/10/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: SVECB
Completed Document Type: Operations and Maintenance Plan
Completed Date: 08/22/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-3
Completed Document Type: Finding of Suitability to Lease

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-3
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-2
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-2
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-1
Completed Document Type: Finding of Suitability to Lease
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P E-1
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/24/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-N
Completed Document Type: Finding of Suitability to Lease
Completed Date: 06/30/1996
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P M
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P M
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P G-2
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P G-2
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: STE13
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 06/27/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: BIO-T
Completed Document Type: Removal Action Completion Report
Completed Date: 01/29/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWTP
Completed Document Type: Removal Action Completion Report
Completed Date: 10/24/1996
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: STE19
Completed Document Type: Remedial Action Plan

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Date: 07/21/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PA1-3
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 08/22/1996
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: *Action Memorandum (if <$1M)
Completed Date: 10/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: EXSI
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/02/1996
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Ste 12
Completed Document Type: Feasibility Study Report
Completed Date: 10/03/1996
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: * Remedial or Removal Design
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILR
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/23/1996
Comments: Not reported

Completed Area Name: OU2&3
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/22/1996
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: CBA
Completed Sub Area Name: SVECB
Completed Document Type: Removal Action Completion Report
Completed Date: 06/21/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SIT14
Completed Document Type: Removal Action Completion Report
Completed Date: 06/19/1997
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Feasibility Study Report
Completed Date: 04/30/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PAR13
Completed Document Type: Feasibility Study Report
Completed Date: 03/27/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Remedial Action Plan
Completed Date: 11/24/1993
Comments: RAP CBAOU 11/24/93 Completion of Proposed Plan and Record of Decision for the Central Base Area Operable Unit (CBAOU). The proposed Plan details the remedies considered and selected to clean groundwater and soil contamination in the CBA OU, and give the public the opportunity to comment on the proposed remedies. The Record of Decision explains the basis and purpose of the decision made by the Air Force to implement the remedies proposed in the proposed plan. Volume Treated, Stabilized, or Disposed: N/A Approximate cost $60,000.00

Completed Area Name: CBA
Completed Sub Area Name: BBPTS
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

Completed Area Name: CBA
Completed Sub Area Name: SITE9

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE1
Completed Document Type: Feasibility Study Report
Completed Date: 02/22/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: DRMO
Completed Document Type: Removal Action Completion Report
Completed Date: 04/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IRP#S
Completed Document Type: Feasibility Study Report
Completed Date: 02/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ST 13
Completed Document Type: Feasibility Study Report
Completed Date: 02/02/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: NFA#S
Completed Document Type: Remedial Action Plan
Completed Date: 04/09/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ROAD
Completed Document Type: Finding of Suitability to Lease
Completed Date: 10/10/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Environmental Baseline Survey
Completed Date: 04/08/1996
Comments: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ROAD
Completed Document Type: Environmental Baseline Survey
Completed Date: 09/30/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: WATER
Completed Document Type: Finding of Suitability to Lease
Completed Date: 09/26/1995
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: P-L
Completed Document Type: Environmental Baseline Survey
Completed Date: 07/21/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Proposed Plan
Completed Date: 04/18/2005
Comments: The proposed plan public meeting was held on 8/11/2004

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision
Completed Date: 09/29/2005
Comments: DTSC concurred with the Basewide ROD, which addresses 22 Installation Restoration Program (IRP) sites, 73 areas of concern (AOC), the Small Arms Range, Building 752, and groundwater contamination in the Northeast Base Area. The ROD will enable properties at Norton Air Force Base to be transferred to the redevelopment authorities. The

- Continued on next page -

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

closed portions of the base are planned for air cargo, warehouses, commercial, and other industrial uses. The selected remedy for Site 2, a former landfill, is operation and maintenance of the landfill cover and gas extraction system. Excavation and off-site disposal was selected for Sites 7, 10, 17, Building 752, and AOC 33. In addition, institutional controls were selected for Sites 2, 5, 19, Small Arms Range, and AOC 4. All other facilities require no further action. The purchaser of sites with institutional controls as the selected remedy will be required to enter into a land use covenant with DTSC as an Air Force condition of sale.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005
Comments: completed

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2005

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2006
Comments: Completed the review of 10/05 quarterly groundwater monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2006
Comments: Completed the review of 12th annual groundwater monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/30/2006
Comments: Completed the review of 2005 offbase water supply annual report

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/30/2006
Comments: Completed Site 2 annual O&M report

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 06/30/2006
Comments: Completed the review of 1st quarter 2006 Site 2 landfill gas O&M report

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/27/2006
Comments: The Air Force removed 19,000 cubic yards of dioxin contaminated soil. Of this soil, 2,700 cubic yards were classified as California hazardous wastes and disposed at a permitted hazardous waste facility. The remaining soil was transported to a nearby city disposal facility to be used as landfill cover. The Air Force took 18 confirmation soil samples and calculated the post-removal risk to human health and sensitive burrowing animals. The results indicated that the combined child/adult excess cancer risk is 1.7x10-6. The non

- Continued on next page -

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

cancer hazard index for children is 1.2x10-2 at the golf course area and 3.3x10-2 at the habitat area. For adults, the non-cancer hazard index for the golf course portion is 3.8x10-4 and 1.1x10-2 for the habitat area

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/14/2005
Comments: The action cosisted of demolishing 11 metal sheds and their floors, removing the top foot of soil (440 cubic yards), and taking confirmation samples. The calculated human health risk is 1.1x10-5 excess cancer risk and 0.02 in hazard index. The site may be suitable for unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/26/2005
Comments: The Air Force excavated and disposed 560 cubic yards of soil soil contaminated with metal and petroleum hydrocarbons. The confirmation samples indicate no contaminants of concern exceeding the clean up goals. The site may be suitable for unrestricted use.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/25/2006
Comments: DTSC approved Site 7 closure report under CERCLA. The Air Force removed 12 concrete sludge drying beds and associated PAH-contaminated soil. A total of 113 cubic yards of concrete and 405 cubic yards of soil were excavated and disposed of. Confirmation sampling indicate that current excess cancer risk is 2x10-6.

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/08/2005
Comments: Secondary document. Revised document is not required

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/30/2006
Comments: DTSC concurred with the findings in the 2nd 5-year review report.

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/07/2006
Comments: Secondary document (groundwater monitoring report, 2nd quarter 2006) accepted

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/07/2006
Comments: Secondary document accepted.

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Operations and Maintenance Report
Completed Date: 12/07/2006
Comments: Secondary document accepted

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 03/07/2007
Comments: The Offbase Water Supply Contingency Annual Report has been incorporated into the Basewide annual groundwater monitoring report and was reviewed together.

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: PCL-C
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 10/24/2007
Comments: DTSC approved the property transfer with 2 SLUCs

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: Parcels B1C & E3E
Completed Document Type: Finding of Suitability to Transfer
Completed Date: 09/26/2007
Comments: Both the FOST & LUC are finalized.

Completed Area Name: CBA
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/11/2007
Comments: DTSC approved the report on 1/11/2007

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE2
Completed Document Type: Other Report
Completed Date: 08/24/2006
Comments: On 10/3/05, Geologic entered Site 2 Landfill with a backhoe and dug 6 potholes. This report documents Geologic's repair work on 5/9-10/06. The RA work is complete and accepted by all BCT members.

Completed Area Name: CBA
Completed Sub Area Name: CBAOU
Completed Document Type: Other Report
Completed Date: 01/11/2007
Comments: The decommissioning of Central Base Area and Base Boundary groundwater pump and treat systems performed in five phases began in December 2001 and completed in February 2006. The final report was accepted on Jan 11, 2007.

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Other Report
Completed Date: 01/29/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 06/16/2009
Comments: accepted

Completed Area Name: * BASEWIDE
Completed Sub Area Name: AOC 33
Completed Document Type: Remedial Action Implementation Workplan
Completed Date: 10/07/2010
Comments: Finalized

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Ste 17
Completed Document Type: Site Characterization Workplan
Completed Date: 03/23/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 10/07/2010

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Comments: finalized

Completed Area Name: * BASEWIDE
Completed Sub Area Name: AOC 33
Completed Document Type: Site Characterization Workplan
Completed Date: 03/23/2011
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: IWL
Completed Document Type: Removal Action Completion Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 08/01/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 05/01/2002
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: B752
Completed Document Type: Remedial Action Completion Report
Completed Date: 10/03/2013
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 09/29/2015
Comments: Not reported

Completed Area Name: * BASEWIDE

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Completed Sub Area Name: SAR
Completed Document Type: Site Characterization Report
Completed Date: 09/07/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/10/2016
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: SITE5
Completed Document Type: Site Characterization Report
Completed Date: 09/06/2016
Comments: Not reported

Completed Area Name: * BASEWIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 07/05/2018
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2020
Future Area Name: * BASEWIDE
Future Sub Area Name: Site 2
Future Document Type: Operations and Maintenance Report
Future Due Date: 2022
Future Area Name: * BASEWIDE
Future Sub Area Name: Not reported
Future Document Type: Operations and Maintenance Report
Future Due Date: 2022
Future Area Name: * BASEWIDE
Future Sub Area Name: Not reported
Future Document Type: Site Characterization Report
Future Due Date: 2021
Future Area Name: * BASEWIDE
Future Sub Area Name: Site 2
Future Document Type: Operations and Maintenance Report
Future Due Date: 2021
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S101272838 **DIST/DIR:** 0.705 SW **ELEVATION:** 1138 **MAP ID:** 11

NAME: NORTON AIR FORCE BASE

ADDRESS: 2,208 ACRES;58 MI EA OF LOS ANGELES, CA
SAN BERNARDINO, CA 92409
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 36970004
ID/Status: Active

Future Document Type: Certification
Future Due Date: 2021
Future Area Name: * BASEWIDE
Future Sub Area Name: AOC 33
Future Document Type: Removal Action Completion Report
Future Due Date: 2020
Future Area Name: * BASEWIDE
Future Sub Area Name: Ste 17
Future Document Type: Removal Action Completion Report
Future Due Date: 2020
Schedule Area Name: * BASEWIDE
Schedule Sub Area Name: Ste 17
Schedule Document Type: Site Characterization Report
Schedule Due Date: 05/27/2020
Schedule Revised Date: Not reported
Schedule Area Name: * BASEWIDE
Schedule Sub Area Name: SAR
Schedule Document Type: Removal Action Completion Report
Schedule Due Date: 05/20/2020
Schedule Revised Date: Not reported

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107735784 **DIST/DIR:** 0.961 WSW **ELEVATION:** 1124 **MAP ID:** C12

NAME: AAC SUPPLY DEPOT

ADDRESS:
SAN BERNARDINO, CA
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 80000878
ID/Status: Inactive - Needs Evaluation

ENVIROSTOR:
Name: AAC SUPPLY DEPOT
Address: Not reported
City,State,Zip: SAN BERNARDINO, CA
Facility ID: 80000878
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.1
Longitude: -117.2333
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F999900
Alias Type: Federal Facility ID
Alias Name: J09CA7176
Alias Type: INPR
Alias Name: 80000878
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 08/02/1999
Comments: Not reported

Future Area Name: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107735784 **DIST/DIR:** 0.961 WSW **ELEVATION:** 1124 **MAP ID:** C12

NAME: AAC SUPPLY DEPOT

ADDRESS:
SAN BERNARDINO, CA
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 80000878
ID/Status: Inactive - Needs Evaluation

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

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107736203 **DIST/DIR:** 0.962 North **ELEVATION:** 1179 **MAP ID:** 13

NAME: CYPRESS II ELEMENTARY SCHOOL

ADDRESS: BASELINE/SOUTH ALLEN STREET
SAN BERNARDINO, CA 92346
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 60000047
ID/Status: Inactive - Withdrawn

ENVIROSTOR:
Name: CYPRESS II ELEMENTARY SCHOOL
Address: BASELINE/SOUTH ALLEN STREET
City,State,Zip: SAN BERNARDINO, CA 92346
Facility ID: 60000047
Status: Inactive - Withdrawn
Status Date: 06/19/2007
Site Code: 404551
Site Type: School Investigation
Site Type Detailed: School
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.12088
Longitude: -117.218
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SAN BERNARDINO USD-PRPSD CYPRESS II ES
Alias Type: Alternate Name
Alias Name: 404551
Alias Type: Project Code (Site Code)
Alias Name: 60000047
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/25/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107736203 **DIST/DIR:** 0.962 North **ELEVATION:** 1179 **MAP ID:** 13

NAME: CYPRESS II ELEMENTARY SCHOOL

ADDRESS: BASELINE/SOUTH ALLEN STREET
SAN BERNARDINO, CA 92346
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 60000047
ID/Status: Inactive - Withdrawn

Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/22/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 06/19/2007
Comments: CRU Memo Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 05/10/2005
Comments: DTSC has issued an Inactive Status letter due to delays by the San Bernardino City district.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/16/2005
Comments: Approval of phase 1 ESA.

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

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107736921 **DIST/DIR:** 0.967 WSW **ELEVATION:** 1123 **MAP ID:** C14

NAME: NORTON COMM FAC

ADDRESS:
SAN BERNARDINO, CA
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 80001185
ID/Status: Inactive - Needs Evaluation

ENVIROSTOR:
Name: NORTON COMM FAC
Address: Not reported
City,State,Zip: SAN BERNARDINO, CA
Facility ID: 80001185
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 40
Senate: 23
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.10027
Longitude: -117.2336
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F688400
Alias Type: Federal Facility ID
Alias Name: J09CA2140
Alias Type: INPR
Alias Name: 80001185
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/02/1992
Comments: Not reported

Future Area Name: Not reported

- Continued on next page -

Site Detail Report

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

ENVIROSTOR

EDR ID: S107736921 **DIST/DIR:** 0.967 WSW **ELEVATION:** 1123 **MAP ID:** C14

NAME: NORTON COMM FAC

ADDRESS:
SAN BERNARDINO, CA
SAN BERNARDINO

SOURCE: CA Department of Toxic Substances Control

Rev: 04/27/2020
ID/Status: 80001185
ID/Status: Inactive - Needs Evaluation

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

Database Descriptions

NPL: NPL 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. NPL - National Priority List Proposed NPL - Proposed National Priority List Sites.

NPL Delisted: Delisted NPL 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. Delisted NPL - National Priority List Deletions

CERCLIS: SEMS 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. SEMS - Superfund Enterprise Management System

NFRAP: SEMS-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. SEMS-ARCHIVE - Superfund Enterprise Management System Archive

RCRA COR ACT: CORRACTS CORRACTS identifies hazardous waste handlers with RCRA corrective action activity. CORRACTS - Corrective Action Report

RCRA TSD: RCRA-TSDF 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. RCRA-TSDF - RCRA - Treatment, Storage and Disposal

RCRA GEN: RCRA-LQG 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. RCRA-LQG - RCRA - Large Quantity Generators RCRA-SQG - RCRA - Small Quantity Generators. RCRA-VSQG - RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators).

Federal IC / EC: US ENG CONTROLS 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. US ENG CONTROLS - Engineering Controls Sites List US INST CONTROLS - Institutional Controls Sites List.

Database Descriptions

ERNS: ERNS Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. ERNS - Emergency Response Notification System

State/Tribal NPL: RESPONSE 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. RESPONSE - State Response Sites

State/Tribal 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. ENVIROSTOR - EnviroStor Database

State/Tribal SWL: SWF/LF (SWIS) 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. SWF/LF (SWIS) - Solid Waste Information System

State/Tribal LTANKS: NAPA CO. LUST SAN DIEGO CO. SAM - Environmental Case Listing. SOLANO CO. LUST - Leaking Underground Storage Tanks. SAN MATEO CO. LUST - Fuel Leak List. ORANGE CO. LUST - List of Underground Storage Tank Cleanups. LUST - Leaking Underground Fuel Tank Report (GEOTRACKER). SONOMA CO. LUST - Leaking Underground Storage Tank Sites. VENTURA CO. LUST - Listing of Underground Tank Cleanup Sites. SAN FRANCISCO CO. LUST - Local Oversite Facilities. LUST SANTA CLARA - LOP Listing. LUST REG 9 - Leaking Underground Storage Tank Report. LUST REG 8 - Leaking Underground Storage Tanks. LUST REG 7 - Leaking Underground Storage Tank Case Listing. LUST REG 5 - Leaking Underground Storage Tank Database. LUST REG 4 - Underground Storage Tank Leak List. LUST REG 3 - Leaking Underground Storage Tank Database. LUST REG 2 - Fuel Leak List. RIVERSIDE CO. LUST - Listing of Underground Tank Cleanup Sites. LUST REG 1 - Active Toxic Site Investigation. LUST REG 6V - Leaking Underground Storage Tank Case Listing. LUST REG 6L - Leaking Underground Storage Tank Case Listing. A listing of leaking underground storage tank sites located in San Francisco county. LUST REG 6L - Local Oversite Facilities INDIAN LUST R5 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R7 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R1 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R4 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R9 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R8 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R6 - Leaking Underground Storage Tanks on Indian Land. INDIAN LUST R10 - Leaking Underground Storage Tanks on Indian Land. CPS-SLIC - Statewide SLIC Cases (GEOTRACKER). SLIC REG 1 - Active Toxic Site Investigations. SLIC REG 2 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 3 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 4 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 5 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 6V - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 6L - SLIC Sites. SLIC REG 7 - SLIC List. SLIC REG 8 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. SLIC REG 9 - Spills, Leaks, Investigation & Cleanup Cost Recovery Listing. Sacramento Co. CS - Toxic Site Clean-Up List.

State/Tribal Tanks: MILITARY UST SITES UST - Active UST Facilities. UST CLOSURE - Proposed Closure of Underground Storage Tank (UST) Cases. Military ust sites UST CLOSURE - Military UST Sites (GEOTRACKER) AST - Aboveground Petroleum Storage Tank Facilities. INDIAN UST R6 - Underground Storage Tanks on Indian Land. INDIAN UST R7 - Underground Storage Tanks on Indian Land. INDIAN UST R8 - Underground Storage Tanks on Indian Land. INDIAN UST R1 - Underground Storage Tanks on Indian Land. INDIAN UST R10 - Underground Storage Tanks on Indian Land. INDIAN UST R4 - Underground Storage Tanks on Indian Land. INDIAN UST R5 - Underground Storage Tanks on Indian Land. INDIAN UST R9 - Underground Storage Tanks on Indian Land.

Database Descriptions

State/Tribal VCP: VCP 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. VCP - Voluntary Cleanup Program Properties

US Brownfields: US BROWNFIELDS 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. US BROWNFIELDS - A Listing of Brownfields Sites

Other SWF: LOS ANGELES CO. LF SAN DIEGO CO. LF - Solid Waste Facilities. CA LA LF - City of Los Angeles Landfills. WMUDS/SWAT - Waste Management Unit Database. VENTURA CO. LF - Inventory of Illegal Abandoned and Inactive Sites. San Diego County Solid Waste Facilities. VENTURA CO. LF - Solid Waste Facilities

Other Haz Sites: SCH 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. SCH - School Property Evaluation Program SAN DIEGO CO. HMMD - Hazardous Materials Management Division Database. CERS HAZ WASTE - CERS HAZ WASTE. US CDL - Clandestine Drug Labs. PFAS - PFAS Contamination Site Location Listing.

Other 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. SWEEPS UST - SWEEPS UST Listing ALAMEDA CO. UST - Underground Tanks. KERN CO. UST - Underground Storage Tank Sites & Tank Listing. MARIN CO. UST - Underground Storage Tank Sites. NAPA CO. UST - Closed and Operating Underground Storage Tank Sites. ORANGE CO. UST - List of Underground Storage Tank Facilities. RIVERSIDE CO. UST - Underground Storage Tank Tank List. SAN FRANCISCO CO. UST - Underground Storage Tank Information. SOLANO CO. UST - Underground Storage Tanks. SUTTER CO. UST - Underground Storage Tanks. VENTURA CO. UST - Underground Tank Closed Sites List. LOS ANGELES UST - Active & Inactive UST Inventory. YOLO CO. UST - Underground Storage Tank Comprehensive Facility Report. EL SEGUNDO UST - City of El Segundo Underground Storage Tank. LONG BEACH UST - City of Long Beach Underground Storage Tank. TORRANCE UST - City of Torrance Underground Storage Tank. UST MENDOCINO - Mendocino County UST Database. UST SAN JOAQUIN - San Joaquin Co. UST. LOS ANGELES AST - Active & Inactive AST Inventory. SAN FRANCISCO AST - Aboveground Storage Tank Site Listing. CERS TANKS - California Environmental Reporting System (CERS) Tanks.

Local Land Records: DEED 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. DEED - Deed Restriction Listing

Spills: HMIRS Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. HMIRS - Hazardous Materials Information Reporting System CHMIRS - California Hazardous Material Incident Report System. Orange Co. Industrial Site - List of Industrial Site Cleanups.

Database Descriptions

Other: 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. RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated FEDLAND - Federal and Indian Lands. TSCA - Toxic Substances Control Act. TRIS - Toxic Chemical Release Inventory System. SSTS - Section 7 Tracking Systems. 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). FTTS INSP - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act). MLTS - Material Licensing Tracking System. RADINFO - Radiation Information Database. BRS - Biennial Reporting System. INDIAN RESERV - Indian Reservations. LEAD SMELTER 1 - Lead Smelter Sites. LEAD SMELTER 2 - Lead Smelter Sites. US AIRS (AFS) - Aerometric Information Retrieval System Facility Subsystem (AFS). US AIRS MINOR - Air Facility System Data. FINDS - Facility Index System/Facility Registry System. CUPA - CUPA Resources List. CUPA AMADOR - CUPA Facility List. CUPA BUTTE - CUPA Facility Listing. CUPA CALVERAS - CUPA Facility Listing. CUPA COLUSA - CUPA Facility List. CUPA DEL NORTE - CUPA Facility List. CUPA EL DORADO - CUPA Facility List. CUPA FRESNO - CUPA Resources List. CUPA HUMBOLDT - CUPA Facility List. CUPA IMPERIAL - CUPA Facility List. CUPA TULARE - CUPA Facility List. CUPA GLENN - CUPA Facility List. CUPA PLUMAS - CUPA Facility List. CUPA TRINITY - CUPA Facility List. CUPA TEHAMA - CUPA Facility List. CUPA LIVERMORE-PLEASANTON - CUPA Facility Listing. CUPA STANISLAUS - CUPA Facility List. CUPA LASSEN - CUPA Facility List. CUPA SAN FRANCISCO CO - CUPA Facility Listing. CUPA SAN BENITO - CUPA Facility List. CUPA INYO - CUPA Facility List. CUPA KINGS - CUPA Facility List. CUPA LAKE - CUPA Facility List. CUPA MADERA - CUPA Facility List. CUPA MERCED - CUPA Facility List. CUPA MONO - CUPA Facility List. CUPA MONTEREY - CUPA Facility Listing. CUPA NEVADA - CUPA Facility List. CUPA SAN LUIS OBISPO - CUPA Facility List. CUPA SANTA BARBARA - CUPA Facility Listing. CUPA SANTA CLARA - Cupa Facility List.
CUPA SANTA CRUZ - CUPA Facility List. CUPA SHASTA - CUPA Facility List. CUPA SONOMA - Cupa Facility List. CUPA TUOLUMNE - CUPA Facility List. CUPA YUBA - CUPA Facility List. HAZNET - Facility and Manifest Data. Sacramento Co. ML - Master Hazardous Materials Facility List. San Bern. Co. Permit - Hazardous Material Permits. LA Co. Site Mitigation - Site Mitigation List. UIC GEO - Underground Injection Control Sites (GEOTRACKER). WDS - Waste Discharge System. MILITARY PRIV SITES - Military Privatized Sites (GEOTRACKER). PROJECT - Project Sites (GEOTRACKER). WDR - Waste Discharge Requirements Listing. SAN DIEGO CO LOP - Local Oversight Program Listing. CIWQS - California Integrated Water Quality System. CERS - CalEPA Regulated Site Portal Data. NON-CASE INFO - Non-Case Information Sites (GEOTRACKER). OTHER OIL GAS - Other Oil & Gas Projects Sites (GEOTRACKER). PROD WATER PONDS - Produced Water Ponds Sites (GEOTRACKER). SAMPLING POINT - Sampling Point ? Public Sites (GEOTRACKER). WELL STIM PROJ - Well Stimulation Project (GEOTRACKER). LOS ANGELES CO LF METHANE - Methane Producing Landfills. PCS - Permit Compliance System. HWTS - Hazardous Waste Tracking System. MINES MRDS - Mineral Resources Data System. PCS ENF - Enforcement data. PCS INACTIVE - Listing of Inactive PCS Permits.

Database Sources

NPL: EPA

Updated Quarterly

NPL Delisted: EPA

Updated Quarterly

CERCLIS: EPA

Updated Quarterly

NFRAP: EPA

Updated Quarterly

RCRA COR ACT: EPA

Updated Quarterly

RCRA TSD: Environmental Protection Agency

Updated Quarterly

RCRA GEN: Environmental Protection Agency

Updated Quarterly

Federal IC / EC: Environmental Protection Agency

Varies

ERNS: National Response Center, United States Coast Guard

Updated Quarterly

State/Tribal NPL: Department of Toxic Substances Control

Updated Quarterly

State/Tribal CERCLIS: Department of Toxic Substances Control

Updated Quarterly

State/Tribal SWL: Department of Resources Recycling and Recovery

Updated Quarterly

State/Tribal LTANKS: San Diego County Department of Environmental Health

No Update Planned

Database Sources

State/Tribal Tanks: State Water Resources Control Board

Varies

State/Tribal VCP: Department of Toxic Substances Control

Updated Quarterly

US Brownfields: Environmental Protection Agency

Updated Semi-Annually

Other SWF: Environmental Health Division

No Update Planned

Other Haz Sites: Department of Toxic Substances Control

Updated Quarterly

Other Tanks: State Water Resources Control Board

No Update Planned

Local Land Records: DTSC and SWRCB

Updated Semi-Annually

Spills: U.S. Department of Transportation

Updated Quarterly

Other: Environmental Protection Agency

Updated Quarterly

Street Name Report for Streets near the Target Property

Target Property: 26816 3RD STREET
HIGHLAND, CA 92346

JOB: NA

Street Name	Dist/Dir	Street Name	Dist/Dir
3rd St	0.02 South		
4th Pl	0.04 NE		
5th St	0.10 North		
6th St	0.24 North		
Central Ave	0.07 East		
Cunningham St	0.21 WNW		
Dundee Ave	0.24 North		
Meines St	0.15 NE		
Midhurst Dr	0.14 North		
Mossway St	0.13 North		
Pinehurst Dr	0.14 NNW		
Primrose Ln	0.16 NNE		
San Bernardino Airport	0.21 South		
Valmont St	0.24 North		
W St	0.20 South		
Ward St	0.17 NNW		

APPENDIX E

CITY OF HIGHLAND BUILDING & SAFETY DIVISION DOCUMENTS

City of Highland
27215 Base Line
Highland, CA 92346
(909) 864-2136

PERMIT NO. B00-004-212
Permit Type: Demolition
code case

PROJECT	TRACT NO.	BLK. NO.	LOT NO.	APPLIC. DATE	ISSUED BY
				5/5/2005	RBS

Issue Date: 05/05/2005
Permit Status: Issued

PROJECT ADDRESS
26854 E 3rd St

ASSESSORS PARCEL NO. **1192-561-18-0000**
GEO CODE

OWNER
Meyer, Edward J Jr Tr
MAILING ADDRESS
PHONE NO.
FAX NO.

APPLICANT
MAILING ADDRESS
PHONE NO.
FAX NO.

CONTRACTOR/PROFESSIONAL
H W Sessoms
MAILING ADDRESS
7260 Barton Rd
San Bernardino, CA 92404
PHONE NO. ( ) -
EMAIL ADDRESS:
FAX NO. ( ) -

TENANT
MAILING ADDRESS
PHONE NO.
FAX NO.

DESCRIPTION
Demolition of Single Family Residence--per Rich

Construction Type	UOM	# of Units	Value	Construction Type	UOM	# of Units	Value

OCCUPANCY
TOTAL VALUATION $0.00

FEE DETAIL

QTY	UOM	DESC	AMT DUE	AMT PAID
1.00	each	App Fee	25.00	25.00
Totals for: 7600			116.46	116.46
1.00	per page	microfilm	0.30	0.30
Totals for: 8340			0.30	0.30
2.00	per hour	insp staff	91.46	91.46

EXPIRED
11-1-05

EXPIRED

Total Fees: $ 116.76 Total Paid: $ 116.76 Balance Unpaid: $ 0.00 Paid Today: $116.76

RECEIPTS DETAIL

Receipt #	Trans. Date	Name	Payment Type	Payment Type #	Amount
4,251	5/5/2005	Contractor	Cash		$116.76

OFFICE

City of Highland
27215 Base Line
Highland, CA 92346
(909) 864-2136

PERMIT NO. B00-011-031
Permit Type: Demolition

PROJECT	TRACT NO.	BLK. NO.	LOT NO.	APPLIC. DATE	ISSUED BY
				5/5/2010	DEA

Issue Date:
Permit Status: Issued

PROJECT ADDRESS
26892 3rd St

ASSESSORS PARCEL NO. 1192-561-20-0000
GEO CODE

OWNER
Meyer, Edward J Jr Tr
MAILING ADDRESS
PHONE NO.
FAX NO.

APPLICANT
MAILING ADDRESS
PHONE NO.
FAX NO.

CONTRACTOR/PROFESSIONAL
Warren Duncan Contracting
MAILING ADDRESS
2148 Glen Helen Pkwy
Highland, CA 92346
PHONE NO. ( ) -
EMAIL ADDRESS:
FAX NO. ( ) -

TENANT
MAILING ADDRESS
PHONE NO.
FAX NO.

DESCRIPTION
Miscellaneous
DEMO SINGLE FAMILY DWELLING, OUT BUILDINGS, POLE SIGN

Construction Type	UOM	# of Units	Value	Construction Type	UOM	# of Units	Value

OCCUPANCY Dwellings TOTAL VALUATION $0.00

FEE DETAIL

QTY	UOM	DESC	AMT DUE	AMT PAID	QTY	UOM	DESC	AMT DUE	AMT PAID
2.00	each	App Fee	80.00	80.00	2.00		insp staff	249.84	249.84
Totals for: 7600			329.84	329.84					
5.00	per page	microfilm	2.75	2.75					
Totals for: 8340			2.75	2.75					

Total Fees: $ 332.59 **Total Paid:** $ 332.59 **Balance Unpaid:** $ 0.00 **Paid Today:** $332.59

RECEIPTS DETAIL

Receipt #	Trans. Date	Name	Payment Type	Payment Type #	Amount
11,917	5/5/2010	CONTRACTOR	Check	33271	$332.59

APPENDIX F

STATEMENT OF QUALIFICATIONS FOR HEI CORPORATION

HEI CORPORATION

HEI Corporation was established in 1994 to respond to a need that exists in the environmental industry. There were many outstanding "full service" environmental firms in Southern California. Very few, however, specialized in performing Phase I Environmental Site Assessments (ESA's). For many firms, the ESA was and is approached as a way of positioning themselves to get any additional work recommended therein. This had led many to recognize the inherent conflict of interest that this represents. HEI Corporation eliminates this potential conflict in that no other environmental services are offered.

HEI Corporation, which also does business as Hayden Environmental, recognizes the importance of an ESA. The company was formed with the expressed purpose of providing the best, most complete, most thoroughly researched report available. At HEI Corporation, our fees are always competitive. Also, because we are not in the business of conducting Site Investigations (phase II's) there is no undue incentive to recommend them.

Our assessments are grounded in a solid understanding of the primary function of an ESA. Liability for environmental contamination can be expensive and time consuming in the extreme. While there is no guarantee that it will, an ESA is designed to allow a party coming into possession of real property, either as a tenant, buyer or lender forced to foreclose, to avail themselves of the "innocent landowner" defense. ESA's can also be a very valuable tool for an owner or tenant to establish a baseline condition of a property proper to the commencement of a lease.

Hayden Environmental has researched the law and adheres to the standards for environmental assessments promulgated by the ASTM Designation E 1527-13.

All Hayden Environmental Phase I assessments will include these five basic components:

- Subject property inspection and surrounding property observation
- Federal, state, tribal and local agency environmental database review
- County and /or municipal government record review
- Historical use review using aerial photographs, Sanborn maps and/or archive city directories
- Interviews with the current and former owners and occupants of the subject property

Hayden Environmental is fully insured, with policy coverage of $2,000,000 for Professional Liability and $1,000,000 for General Liability.

CHRISTOPHER M. HAYDEN

Chris Hayden, EP, has been in the environmental field since 1991. He began with a large multinational firm as the regional sales and marketing representative for Western U.S. He dealt primarily with firms in the energy, mining and real estate development fields. Seeking to broaden his "hands on" experience, he began working with a local firm in 1992. While there, he had the opportunity to work on a variety of projects, including environmental site assessments and site investigations. Seeing the need for a firm that specialized in conducting reliable, thorough and reasonably priced environmental site assessments while avoiding potential conflicts of interest, he formed Hayden Environmental in 1994. Hayden, through his years of experience, has earned the designation of Environmental Professional (EP) as defined in Section 40 C.F.R. § 312.10(b).

Mr. Hayden also serves on the ASTM E50 Committee which reviews, revises and enforces the standards for environmental assessments currently promulgated by the ASTM Designation E 1527-13.

Prior to 1991 Hayden had been in the real estate industry for twelve years. He last worked as an industrial real estate broker with Grubb & Ellis in Newport Beach, CA.

Hayden has a Bachelor of Arts Degree in Biology from Humboldt State University in Arcata, California. He has taken several classes in the Environmental Site Investigation and Remediation Certificated program at the University of California at Irvine.

ENVIRONMENTAL COURSES/SEMINARS COMPLETED

40 Hour HazMat Health and Safety Training

ASTM Standards Technology Training in Phase I Site Assessments for Environmental Professionals

Principles of Hazardous Materials Management

Regulatory Framework of Hazardous and Toxic Substances

Groundwater Hydrology: Monitoring, Protection and Clean-up

The Site Investigation and Remedial Feasibility Process

The Site Remediation Process for Hazardous Substance Impacts

Environmental Aspects of Souls Engineering and Geology

Innovative Soils Gas Monitoring and Remediation Applications

A Partial List of Clients Includes:

CLIENT	CLIENT
US Bank	First California Bank
Bank of America	Comerica Bank
Bank of Internet/Apartmentbank	U. S. Trust Co.
Orange County Business Bank	First Citizens Bank
First Security Bank	Bank of the West
Pacific Enterprise Bank	PFF Bank & Trust
Community Bank	Southland EDC
American Business Bank	Wells Fargo
California Bank & Trust	Investment Building Group (IBG)
Farmers & Merchants Trust	Messenger Investment Company
Spectrum Commercial Lending	The Koll Company
City National Bank	Steadfast Companies
Palm Desert National Bank	Shaw Properties
1st Capital Bank	Rexco Real Estate Development
California Statewide CDC	Cardinal Development Company
First American Bank	Lord Constructors
Hamni Bank	Caribou Industries
First Foundation Bank	Western National Realty Advisors
Sun Country Bank	Sares-Regis Group
Union Bank of California	Gilmore Associates
Bank of China	Aardex Corporation
Uniti Bank	Arlen Capital
Dynex Financial, Inc.	Martin Building Company
Silvergate Bank	NPL Construction Co.
Finova Corporation	Carmenita Investment Properties
ARCS Commercial Mortgage	The Davidson Group
GE Financial Corporation	National Golf Properties
Sanwa Bank	Nextel Communications
BBVA Compass	Coca Cola Enterprises
First Union Small Business Capital	General Telephone Company
California Republic Bank	Intuit
Bank One	Rockwell International
Sun Life of America	Pacific Sales
City of Redlands	University of Southern California
City of Los Angeles CRA	Pepperdine University

REFERENCES

Lenders

Mr. Murray Anderson
US Bank
3121 Michelson Drive, Suite 326
Irvine, CA 92612
T: 949-230-6562
Email: murray.anderson@usbank.com

Mr. Grady Kjesbo
Community Bank
2100 Main Street, Suite 103
Irvine, CA 92814
T: 949-223-4148
Email: gkjesbo@cbank.com

Real Estate Developer

Mr. Robert Murray
President
Steadfast Commercial Properties
18100 Von Karman Avenue, Suite 500
Irvine, CA 92612
T.: 949-852-0700
Email: bmurray@steadfastcompanies.com

Real Estate Brokers

Mr. Tim Hawke
President
Strata Realty
2433 Pomona Rincon Road
Corona, CA 92880
T.: 951-280-1733
Email: thawke@stratarealty.com

Mr. Richard C. John
Executive Vice President
Branch Manager
Daum Commercial Real Estate Services
3595 East Inland Empire Blvd., Bldg. 5
Ontario, CA 91764
T: 909-980-1234
Email: rj@daumcommercial.com

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 10/4/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Van Oppen & Co. 2, Inc.
VOCO 2 Insurance & Risk Control Services
P.O. Box 793
Teton Village WY 83025

CONTACT NAME: Brenda Todd
PHONE (A/C, No, Ext): 800-746-0048 FAX (A/C, No):
E-MAIL ADDRESS: service@vanoppenco2.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Westchester Surplus Lines	10172
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED HEICO-1
HEI Corporation
1805 Peninsula Pl
Costa Mesa CA 92627

COVERAGES **CERTIFICATE NUMBER:** 1456819587 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY	Y	Y	G24331337 004	11/4/2018	11/4/2020	EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 50,000
	X CPL(Pollution)						MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
A	AUTOMOBILE LIABILITY	Y	Y	G24331337 004	11/4/2018	11/4/2020	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS / X NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB / OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB / CLAIMS-MADE						AGGREGATE	$
	DED / RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH)	N / A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liability "Claims Made" Subject to GL Aggregate			G24331337 004	11/4/2018	11/4/2020	Each Claim Aggregate	1,000,000 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
General Information

CERTIFICATE HOLDER

General Information

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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Appendix F-1

Preliminary Water Quality Management Plan

CASC
Engineering and Consulting

1470 E. Cooley Drive
Colton, CA 92324
Office: 909.783.0101
Fax: 909.783.0108

Transmitted via Std Mail

February 9, 2022

Matt Bennett
Assistant Public Works Director
CITY OF HIGHLAND
27215 Base Line
Highland, CA 92346

RECEIVED
FEB 14 2022
ENGINEERING DEPT

Subject: Recommendation of Acceptance
3rd at Central Industrial, DRA21-024 C-WQMP
Project No. WQP 021-005 (3068.31) – with Conditions

Dear Mr. Bennett:

CASC Engineering and Consulting (CASC), as a consultant to the City of Highland, has performed a review of the Conceptual Water Quality Management Plan (C-WQMP) prepared by Huitt-Zollars, Inc. (Preparer) for WQP 021-005 (3068.31) 3rd at Central Industrial (Project) located at the northwest corner of Central Avenue and 3rd Street, APNs 1192-561-11, -15 through -21, and submitted by Patriot Development Partners (Applicant). Based on information presented in the C-WQMP, CASC has found that the C-WQMP is in conformance, at a conceptual level, with the document, "Technical Guidance Document for Water Quality Management Plans" (Guidance Document), prepared June 7, 2013, and approved by the Santa Ana Regional Water Quality Control Board. CASC's review and findings are limited to determination of a conceptual-level conformance with the Guidance Document only. The Applicant and Preparer of the C-WQMP remain responsible for all civil design elements and assertions in the C-WQMP, and the Applicant remains responsible for preparation of a Final Water Quality Management Plan (F-WQMP), submittal of the F-WQMP for approval, and implementation, maintenance, and funding of all elements of the F-WQMP and for any and all liability and damages (environmental or otherwise) arising out of the implementation or failure to implement any portion of the F-WQMP ultimately approved by the City.

The purpose of this letter is to transmit the conditions of CASC's recommendation for acceptance of the C-WQMP.

Applicant:	Patriot Development Partners
Project:	WQP 021-005 (3068.31) 3rd at Central Industrial
Project Location:	NWC of Central Avenue and 3rd Street, APNs 1192-561-11, -15 through -21
Date Received:	February 8, 2022
Review Type:	Standard
Review Stage:	**Conceptual – 2nd Review – Acceptance Recommended**

Conditions of Acceptance

- The Applicant shall submit, for approval, a Final WQMP that is in substantial conformance with the Conceptual WQMP and City of Highland requirements. The Final WQMP shall be in full conformance with the Guidance Document.

CASC
Engineering and Consulting

1470 E. Cooley Drive
Colton, CA 92324
Office: 909.783.0101
Fax: 909.783.0108

- The plan shows that improvements on Central Avenue are to be constructed by the City of Highland. Applicant is to confirm with the City and are part of a separate public works project.
- Show all roof drain locations on the WQMP plan and include a copy of the architect's roof plan to confirm the locations.
- A complete Operation and Maintenance Plan is to be included in the F-WQMP.
- Revise the routing in the drainage study using 2.4 inches/hour maximum infiltration rate. Submit a revised drainage report with the submittal of the F-WQMP.
- Include a calculation in the F-WQMP that shows the proposed underground infiltration system will drain completely when full in forty-eight (48) hours.
- Two infiltration tests using a double-ring infiltrometer shall be conducted, observed, and reported during construction once the excavation for the underground infiltration systems are complete to confirm the design infiltration rates. If the rates are less than the design infiltration rates, then the systems are to be modified to account for the lower infiltration rates. If the rates are higher than the design infiltration rates, then the system is to be constructed per plan.
- No compaction shall take place at the bottom of the excavation of the proposed underground infiltration system.
- The proposed BMP locations are not to be used for storage of equipment, vehicles, or materials during construction. The BMPs are to be protected from runoff and are not to be used as sediment traps or sediment basins during construction.
- Applicant shall include a copy of the Project's grading plans, landscape plans and utility plans with the first submittal of the Final WQMP.
- The proposed underground infiltration systems are to be registered with the EPA as Class V Injection Wells.

Please forward to the preparer and applicant after review. If there are any questions regarding this conditional acceptance, please call me at (909) 809-0035, or e-mail me at mgentile@cascinc.com at your earliest convenience.

Best regards,
CASC Engineering and Consulting

Digitally signed by Michael J. Gentile, PE
Date: 2022.02.09 16:39:46 -08'00'

Michael J. Gentile, P.E., QSD
Senior Engineer

Enclosures: 1st and 2nd C-WQMP Submittal; Preliminary Drainage Report

Copy: Jay Tuttle IV, City of Highland

Preliminary

Water Quality Management Plan

For:

3rd at Central Industrial

WQP 21-005

APN: 1192-561-11, 15, 16, 17, 18, 19, 20, & 21

Prepared for:

Patriot Development Partners

12126 W.Sunset Blvd.

Los Angeles, CA 90049

858-952-4134

Prepared by:

Huitt-Zollars, Inc

3990 Concours, Suite 330

Ontario, CA 91764

909-941-7799

HZ Project # 314509.01

Submittal Date: 12/23/2021

Revision Date: 02/07/2022

Revision Date: TBD

Approval Date:_____

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for Patriot Development Partners by Huitt-Zollars, Inc. The WQMP is intended to comply with the requirements of the County of San Bernardino and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

.

Project Data			
Permit/Application Number(s):	WQP 21-005	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	TBD	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 1192-561-11, 15, 16, 17, 18, 19, 20, & 21

Owner's Signature			
Owner Name: Kevin Rice			
Title	Principal		
Company	Patriot Development Partners		
Address	12126 W.Sunset Blvd. Los Angeles, CA 90049		
Email	kevin@patriotdevelopmentpartners.com		
Telephone #	858-952-4134		
Signature		Date	

Preparer's Certification

Project Data			
Permit/Application Number(s):	WQP 21-005	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	TBD	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			APN: 1192-561-11, 15, 16, 17, 18, 19, 20, & 21

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer: Ryan Peng, PE		PE Stamp Below
Title	Project Manager	
Company	Huitt-Zollars, Inc	
Address	3990 Concours, Suite 330. Ontario, CA 91764	
Email	rpeng@huitt-zollars.com	
Telephone #	909-941-7799	
Signature		
Date	*02/24/2022*	

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Attachment E – Maintenance Agreement (will be provided in Final WQMP)

Section 1 Discretionary Permit(s)

Form 1-1 Project Information						
Project Name		3rd at Central Industrial				
Project Owner Contact Name:		Kevin Rice, Principal				
Mailing Address:	12126 W.Sunset Blvd. Los Angeles, CA 90049	E-mail Address:	kevin@patriotdevelopmentpartners.com		Telephone:	858-952-4134
Permit/Application Number(s):		WQP 21-005		Tract/Parcel Map Number(s):	TBD	
Additional Information/ Comments:		None				
Description of Project:		The project is a new development of a industrial warehouse facility located at the northwest corner of 3rd Street and Central Avenue in City of Highland, California. The site is mostly vacant with scattered weeds and native grass and occupied by existing trailer parking and storage in the north and west areas of the site. The site slopes from east to west having about six (6) feet of fall. Existing runoff sheet flows westerly to western neighborhood and continues south to 3rd street and discharge to 3rd street storm drain system. The proposed building is approximately 54,460 square feet in size on approximately 3.0 acres land. All on-site runoff will be collected by catch basins and conveyed to the on-site underground infiltration/ detention system on the west side of the project site for treatment. The underground system is registered with the EPA as a Class V Injection Well (UIC File ID: CA-20211207-JK-2435) and sized to treat the DCV and it also detains 100-year storm for mitigation. Once the infiltration chamber system reaches its capacity the system will overflow to an 8-inch outlet pipe connected to an existing curb inlet along 3rd street. The overflow from the underground system will be discharged to an existing curb inlet in 3rd Street through a proposed 8” drain pipe. There is no off-site street improvement for this project; therefore, no off-site water quality treatment will be provided per the project. See WQMP site map in Attachment A for drainage areas and facility locations. The treated overflow from the proposed project site will ultimately discharge to the City Creek Channel, Twin Creek Channel, Santa Ana River and finally enter to Prado Basin.					
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.		N/A				

Section 2 Project Description

2.1 Project Information

This section of the WQMP should provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

Form 2.1-1 Description of Proposed Project

1 Development Category (Select all that apply):			
☐ Significant re-development involving the addition or replacement of 5,000 ft^2 or more of impervious surface on an already developed site	☒ New development involving the creation of 10,000 ft^2 or more of impervious surface collectively over entire site	☐ Automotive repair shops with standard industrial classification (SIC) codes 5013, 5014, 5541, 7532- 7534, 7536-7539	☐ Restaurants (with SIC code 5812) where the land area of development is 5,000 ft^2 or more
☐ Hillside developments of 5,000 ft^2 or more which are located on areas with known erosive soil conditions or where the natural slope is 25 percent or more	☐ Developments of 2,500 ft^2 of impervious surface or more adjacent to (within 200 ft) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters.	☒ Parking lots of 5,000 ft^2 or more exposed to storm water	☐ Retail gasoline outlets that are either 5,000 ft^2 or more, or have a projected average daily traffic of 100 or more vehicles per day
☐ Non-Priority / Non-Category Project *May require source control LID BMPs and other LIP requirements. Please consult with local jurisdiction on specific requirements*.			

2 Project Area (ft2):	131,012	**3** Number of Dwelling Units:	N/A	**4** SIC Code:	4581, 4213-4215

5 Is Project going to be phased? Yes ☐ No ☒ *If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.*

6 Does Project include roads? Yes ☐ No ☒ *If yes, ensure that applicable requirements for transportation projects are addressed (see Appendix A of TGD for WQMP)*

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management
Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:
This property is being developed and owned by Patriot Development Partners, who will be the entity responsible for long term maintenance of WQMP Storm Drain Water Facilities throughout the site. Owner/ Developer Name: Patriot Development Partners Address: 12126 W.Sunset Blvd. Los Angeles, CA 90049 Contact Person: Kevin Rice Phone: 858-952-4134

2.3 Potential Stormwater Pollutants

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-3 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern			
Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ☒	N ☐	Pathogens are typically caused by the transport of animal or human fecal wastes from the watershed.
Nutrients - Phosphorous	E ☒	N ☐	Primary sources of nutrients in urban runoff are fertilizers and eroded soils.
Nutrients - Nitrogen	E ☒	N ☐	Primary sources of nutrients in urban runoff are fertilizers and eroded soils.
Noxious Aquatic Plants	E ☐	N ☒	Noxious aquatic plants are typically from animals or vehicle transport that grow aggressively, multiply quickly without natural controls (native herbivores, soil chemistry, etc.), and adversely affect native habitats.
Sediment	E ☒	N ☐	Sediments are solid materials that are eroded from the land surface.
Metals	E ☒	N ☐	The primary source of metal pollution in stormwater is typically commercially available metals and metal products, as well as emissions from brake pad and tire tread wear associated with driving.
Oil and Grease	E ☒	N ☐	Primary sources of oil and grease are petroleum hydrocarbon products, motor products from leaking vehicles, esters, oils, fats, waxes, and high molecular-weight fatty acids.
Trash/Debris	E ☒	N ☐	Trash (such as paper, plastic, polystyrene packing foam, and aluminum materials) and biodegradable organic matter (such as leaves, grass cuttings, and food waste) are general waste from human or animals
Pesticides / Herbicides	E ☒	N ☐	Pesticides and herbicides can be washed off urban landscapes during storm events.
Organic Compounds	E ☒	N ☐	Sources of organic compounds may include waste handling areas and vehicle or landscape maintenance areas.
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

2.4 Water Quality Credits

A water quality credit program is applicable for certain types of development projects if it is not feasible to meet the requirements for on-site LID. Proponents for eligible projects, as described below, can apply for water quality credits that would reduce project obligations for selecting and sizing other treatment BMP or participating in other alternative compliance programs. Refer to Section 6.2 in the TGD for WQMP to determine if water quality credits are applicable for the project.

Form 2.4-1 Water Quality Credits			
1 Project Types that Qualify for Water Quality Credits: *Select all that apply*			
☐ Redevelopment projects that reduce the overall impervious footprint of the project site. [Credit = % impervious reduced]	Higher density development projects ☐ Vertical density [20%] ☐ 7 units/ acre [5%]	☐ Mixed use development, (combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that demonstrate environmental benefits not realized through single use projects) [20%]	☐ Brownfield redevelopment (redevelop real property complicated by presence or potential of hazardous contaminants) [25%]
☐ Redevelopment projects in established historic district, historic preservation area, or similar significant core city center areas [10%]	☐ Transit-oriented developments (mixed use residential or commercial area designed to maximize access to public transportation) [20%]	☐ In-fill projects (conversion of empty lots & other underused spaces < 5 acres, substantially surrounded by urban land uses, into more beneficially used spaces, such as residential or commercial areas) [10%]	☐ Live-Work developments (variety of developments designed to support residential and vocational needs) [20%]
2 Total Credit % 0 *(Total all credit percentages up to a maximum allowable credit of 50 percent)*			
Description of Water Quality Credit Eligibility (if applicable)	N/A		

Section 3 Site and Watershed Description

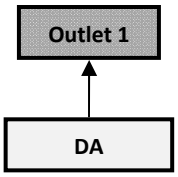
Describe the project site conditions that will facilitate the selection of BMP through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed DMAs) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. The form below is provided as an example. Then complete Forms 3.2 and 3.3 for each DA on the project site. ***If the project has more than one drainage area for stormwater management, then complete additional versions of these forms for each DA / outlet.***

Form 3-1 Site Location and Hydrologic Features

Site coordinates *take GPS measurement at approximate center of site*	Latitude 34° 6'25.04"N	Longitude 117°13'7.24"W	Thomas Bros Map page 577

1 San Bernardino County climatic region: ☒ Valley ☐ Mountain

2 Does the site have more than one drainage area (DA): Yes☐ No☒ *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached*



Conveyance	Briefly describe on-site drainage features to convey runoff that is not retained within a DMA
DA1 to Outlet 1	Runoff from the area DA 1 will be directed to a proposed underground infiltration/detention system on the west side of the project site. The design capture volume (DCV) will be treated through infiltration. See the WQMP Site map in Attachment A.

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1				
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)	131,012	N/A	N/A	N/A
2 Existing site impervious area (ft^2)	47,164	N/A	N/A	N/A
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	AMC III	N/A	N/A	N/A
4 Hydrologic soil group *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	A	N/A	N/A	N/A
5 Longest flowpath length (ft)	620'	N/A	N/A	N/A
6 Longest flowpath slope (ft/ft)	~0.0100	N/A	N/A	N/A
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*	Barren	N/A	N/A	N/A
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*	Poor	N/A	N/A	N/A

Form 3-3 Watershed Description for Drainage Area	
Receiving waters *Refer to Watershed Mapping Tool -* *http://permitrack.sbcounty.gov/wap/* *See 'Drainage Facilities" link at this website*	City Creek Channel, Twin Creek Channel, Santa Ana Reach 5, Santa Ana Reach 4, Santa Ana Reach 3, Prado Control basin, Santa Ana Reach 2, Santa Ana Reach 1, and Pacific Ocean.
Applicable TMDLs *Refer to Local Implementation Plan*	Santa Ana River Reach 3: pathogens, nitrate.
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool –* *http://permitrack.sbcounty.gov/wap/ and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	Santa Ana Reach 2: bacteria indicator. Santa Ana Reach 3: copper, lead, pathogens. Santa Ana Reach 4: pathogens. Prado Control Basin: nutrients, pathogens, TSS.
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool –* *http://permitrack.sbcounty.gov/wap/*	None
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool –* *http://permitrack.sbcounty.gov/wap/*	City Creek Twin Creek Channel Santa Ana River
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☒ No

Section 4 Best Management Practices (BMP)

4.1 Source Control BMP

4.1.1 Pollution Prevention

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	☒	☐	Property owners shall review and become familiar with the site specific WQMP. Educational materials for day to day operations are contained in Attachment C. Additional materials can be obtained from the local water pollution prevention program. Education of property owners begin with the review/preparation of the site specific WQMP and continues through the review of additional educational material as it applies to their project.
N2	Activity Restrictions	☒	☐	Activity restriction shall be stated in the owners lease terms prior to occupancy; • Fuelling areas, air/water supply areas, maintenance bays, vehicle washing areas, outdoor material storage areas, outdoor work areas, outdoor processing areas, wash water from food preparation areas within the project site will not be allowed on the project site. • Storage of hazardous materials will not be allowed on the project site. • All pesticide applications shall be performed by a licensed contractor certified by the California Department of Pesticide Regulation. • All dumpster lids shall be kept closed at all times. • Blowing, Sweeping or hosing of debris (leaf, litter, grass clippings, trash or debris) into the streets, underground stormdrain facilities or other storm water conveyance areas shall be strictly prohibited
N3	Landscape Management BMPs	☒	☐	A landscape architect will provide design plans for the on-site landscaping and irrigation system. The design shall incorporate the use of native and drought tolerant trees and shrubs throughout the project site.
N4	BMP Maintenance	☒	☐	Property owners shall maintain the designated on-site BMP areas, see Section 5 for self inspection and maintenance form
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	Industrial purposed warehouse does not apply to Title 22 CCR (California Code of Regulations). CCR licensing in child care, residential and family child care.
N6	Local Water Quality Ordinances	☒	☐	Local Water Quality Ordinances will be addressed by implementation of this WQMP

Form 4.1-1 Non-Structural Source Control BMPs				
N7	Spill Contingency Plan	☒	☐	Industrial Warehouse buildings and truck dock areas have potential for spills and therefore each tenant shall be required to prepare a spill contingency plan and it shall be implemented in accordance with section 6.95 of the California Health and Safety Code. The spill contingency plan shall identify responsible persons in the event of a spill, an action item list identifying how the spill should be contained, cleaned up and who should be contacted in the event of a spill. Documentation of any spill event and cleanup process shall be kept on site in perpetuity.
N8	Underground Storage Tank Compliance	☐	☒	No underground storage tanks are proposed for this site
N9	Hazardous Materials Disclosure Compliance	☐	☒	No hazardous materials are planned to be stored on this site.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N10	Uniform Fire Code Implementation	☒	☐	Underground fire protection service and fire sprinklers will be provided per the uniform fire code and the requirements of the County of San Bernardino Fire Department.
N11	Litter/Debris Control Program	☒	☐	Trash storage areas will be designed to have adjacent areas drain away from the trash storage areas. The trash storage areas shall be inspected and maintained on a monthly basis. Collection of trash from the trash storage areas shall occur on a regular basis to ensure that the trash receptacles are not overflowing. Documentation of such inspection/maintenance and trash collection shall be kept by the owner in perpetuity. See the WQMP site map in Attachment A for anticipated location of trash storage areas.
N12	Employee Training	☒	☐	The following shall be provided to the tentant by the onwer; an Employee Training/Education program shall be provided annually to help educate employees about storm water quality management and practices that help prevent storm water pollution. Documentation of such training/education program implementation shall be kept by the owner for a minimum of ten years. Sample education materials have been provided in Attachment C. Additional educational materials can be obtained from the County of San Bernardino storm water program.
N13	Housekeeping of Loading Docks	☒	☐	The project site will have truck docks. The truck docks shall be inspected on a weekly basis to help ensure that any trash and debris are collected prior to being washed into the underground storm drain system. All storm water runoff from the loading dock areas will be discharged into the underground infiltration system prior to conveyance to the public storm drain system. Documentation of such inspection/maintenance shall be kept by the owner in perpetuity.
N14	Catch Basin Inspection Program	☒	☐	The on-site catch basins shall be inspected on a quarterly basis. Inspection of the on-site catch basins shall consist of visual inspection of any sediment, trash or debris collected in the bottom of each catch basin. Any sediment, trash or debris found shall be removed from the catch basins and disposed of in a legal manner. Documentation of such inspection/maintenance shall be kept by the owner in perpetuity.

N15	Vacuum Sweeping of Private Streets and Parking Lots	☒	☐	The on-site parking lots, drive aisles, and loading dock areas shall be swept by sweeper truck on a monthly basis. Documentation of such sweeping shall be kept by the owner in perpetuity. Frequency of sweeping shall be adjusted as needed to maintain a clean site.
N16	Other Non-structural Measures for Public Agency Projects	☐	☒	None, not a public agency project.
N17	Comply with all other applicable NPDES permits	☒	☐	General construction permit "SWRCB Orders No. 2009-009-DWQ as amended by Order 2010-0014-DWQ"

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stencilling and signage (CASQA New Development BMP Handbook SD-13)	☒	☐	The on-site storm drain catch basins shall be stenciled with the phrase "Drains to River" or other approved language. The signage shall be inspected on an annual basis. Missing or faded signage shall be replaced. Documentation of such inspection/maintenance shall be kept by the owner in perpetuity.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)	☐	☒	No outdoor material storage areas are proposed for this site
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	☒	☐	Trash storage areas will be designed to have adjacent areas drain away from the trash storage areas. The trash storage areas shall be inspected and maintained on a weekly basis. Collection of trash from the trash storage areas shall occur on a regular basis to ensure that the trash receptacles are not overflowing. Documentation of such inspection/maintenance and trash collection shall be kept by the owner in perpetuity. See the WQMP site map in Attachment A for anticipated location of trash storage areas.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	☒	☐	The landscape architect will follow CASQA SD-12 for design and provide design plans for the on-site irrigation system. The irrigation system shall be inspected on a monthly basis to ensure proper operation. Any broken sprinkler heads shall be repaired immediately to ensure that the system continues to operate efficiently. Documentation of such inspection/maintenance shall be kept by the owner in perpetuity.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	☒	☐	The landscape architect will provide design plans for the on-site landscaping and irrigation system. The design shall incorporate that finish grade of landsapced areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement throughout the project site.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)	☒	☐	All on-site slopes shall be designed with a minimum slope of 3 horizontal to 1 vertical to help ensure that erosion of the side slopes does not occur. The slopes will be landscaped appropriately to also help ensure that erosion of the slopes does not occur. Slopes will be inspected and maintained bi-annually. Documentation of such inspection/maintenance shall be kept by the owner in perpetuity.

S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	☐	☒	Docks are not covered
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)	☐	☒	No maintenance bays are planned for this site.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No vehicle wash area are planned for this site.
S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)	☐	☒	No outdoor processing areas are planned for this site.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	No equipment wash areas are planned for this site.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)	☐	☒	No fueling areas are planned for this site.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)	☐	☒	No hillside landscaping are planned in this site.
S14	Wash water control for food preparation areas	☐	☒	Food preparation areas are not planned for this site.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)	☐	☒	No community car wash rack are planned for this site.

4.1.2 Preventative LID Site Design Practices

Site design practices associated with new LID requirements in the MS4 Permit should be considered in the earliest phases of a project. Preventative site design practices can result in smaller DCV for LID BMP and hydromodification control BMP by reducing runoff generation. Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Preventative LID Site Design Practices Checklist
Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets*
Minimize impervious areas: Yes ☐ No ☒ Explanation: The developer has provided the landscape percentage required by the City. The underground infiltration/detention system is sized to meet the BMP requirements.
Maximize natural infiltration capacity: Yes ☒ No ☐ Explanation: All on-site runoff direct to an underground infiltration/detention system to promote groundwater recharge.
Preserve existing drainage patterns and time of concentration: Yes ☒ No ☐ Explanation: Existing runoff sheet flows westerly and drain onto to 3rd Street and discharges to 3rd Street Storm drain system. The proposed runoff will be collected and conveyed to an on-site underground infiltration/detention system, and the overflow will discharge to the 3rd Street Storm Drain System also; the detention system will increase the time of concentration.
Disconnect impervious areas: Yes ☐ No ☒ Explanation: The building roof drains along the west side will be directly connected to the on-site storm drain system.
Protect existing vegetation and sensitive areas: Yes ☐ No ☒ Explanation: The site has no sensitive vegetation to protect. The planting of new vegetation will be occur throughout the site.
Re-vegetate disturbed areas: Yes ☒ No ☐ Explanation: All proposed landscape areas will be vegetated for stablization.
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes ☒ No ☐ Explanation: The soils at the bottom of proposed infiltration/detention system will be leveled, but not compacted.
Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: Yes ☐ No ☒ Explanation: Due to the site layout and designed grades, no vegetated drainage swales will be utilized in the proposed design.
Stake off areas that will be used for landscaping to minimize compaction during construction : Yes ☒ No ☐ Explanation: Landscaped areas will be staked off during grading operation throughout the project site.

4.2 Project Performance Criteria

The purpose of this section of the Project WQMP is to establish targets for post-development hydrology based on performance criteria specified in the MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection of any downstream waterbody segments with a HCOC. ***If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.***

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), the San Bernardino County Stormwater Program requires use of the P_6 method (MS4 Permit Section XI.D.6a.ii) – Form 4.2-1
- For HCOC pre- and post-development hydrologic calculation, the San Bernardino County Stormwater Program requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi²), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for HCOC performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)		
1 Project area DA 1 (ft^2): 131,012	**2** Imperviousness after applying preventative site design practices (Imp%): 0.81	**3** Runoff Coefficient (Rc): _0.61 *$R_c = 0.858(Imp\%)^{\wedge 3}-0.78(Imp\%)^{\wedge 2}+0.774(Imp\%)+0.04$*
4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.515 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
5 Compute P_6, Mean 6-hr Precipitation (inches): 0.76 *P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*		
6 Drawdown Rate *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
7 Compute design capture volume, DCV (ft^3): 9,936 *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

NOAA Atlas 14, Volume 6, Version 2
Location name: Highland, California, USA*
Latitude: 34.1069°, Longitude: -117.2181°
Elevation: 1164.65 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	0.103 (0.086-0.125)	0.135 (0.112-0.164)	0.178 (0.148-0.217)	0.215 (0.176-0.264)	0.266 (0.211-0.338)	0.306 (0.238-0.398)	0.349 (0.264-0.465)	0.394 (0.290-0.541)	0.458 (0.323-0.656)	0.510 (0.348-0.756)
10-min	0.147 (0.123-0.179)	0.193 (0.161-0.235)	0.256 (0.212-0.312)	0.308 (0.253-0.378)	0.381 (0.302-0.484)	0.439 (0.341-0.571)	0.500 (0.379-0.667)	0.565 (0.416-0.775)	0.657 (0.464-0.940)	0.731 (0.498-1.08)
15-min	0.178 (0.148-0.217)	0.234 (0.194-0.285)	0.309 (0.256-0.377)	0.372 (0.306-0.457)	0.460 (0.366-0.586)	0.531 (0.413-0.690)	0.605 (0.458-0.806)	0.683 (0.503-0.938)	0.794 (0.561-1.14)	0.884 (0.602-1.31)
30-min	0.268 (0.223-0.326)	0.352 (0.292-0.428)	0.465 (0.385-0.567)	0.560 (0.460-0.688)	0.693 (0.550-0.881)	0.799 (0.621-1.04)	0.910 (0.690-1.21)	1.03 (0.757-1.41)	1.20 (0.843-1.71)	1.33 (0.906-1.97)
60-min	0.393 (0.327-0.477)	0.515 (0.428-0.627)	0.681 (0.564-0.830)	0.819 (0.673-1.01)	1.01 (0.805-1.29)	1.17 (0.909-1.52)	1.33 (1.01-1.78)	1.51 (1.11-2.07)	1.75 (1.24-2.50)	1.95 (1.33-2.89)
2-hr	0.564 (0.469-0.684)	0.725 (0.602-0.882)	0.941 (0.779-1.15)	1.12 (0.919-1.38)	1.37 (1.08-1.74)	1.56 (1.21-2.03)	1.76 (1.33-2.35)	1.97 (1.45-2.70)	2.26 (1.59-3.23)	2.49 (1.69-3.69)
3-hr	0.692 (0.575-0.840)	0.884 (0.734-1.08)	1.14 (0.943-1.39)	1.35 (1.11-1.66)	1.64 (1.30-2.08)	1.86 (1.45-2.42)	2.09 (1.59-2.79)	2.33 (1.72-3.20)	2.66 (1.88-3.81)	2.92 (1.99-4.33)
6-hr	0.966 (0.803-1.17)	1.23 (1.02-1.49)	1.58 (1.31-1.92)	1.86 (1.53-2.28)	2.24 (1.78-2.86)	2.54 (1.98-3.31)	2.85 (2.16-3.79)	3.16 (2.33-4.33)	3.59 (2.53-5.13)	3.92 (2.67-5.81)
12-hr	1.28 (1.06-1.55)	1.64 (1.37-2.00)	2.12 (1.75-2.58)	2.50 (2.06-3.08)	3.03 (2.40-3.85)	3.43 (2.66-4.45)	3.83 (2.90-5.11)	4.25 (3.13-5.83)	4.81 (3.39-6.88)	5.24 (3.57-7.77)
24-hr	1.73 (1.53-1.99)	2.25 (1.99-2.60)	2.93 (2.59-3.39)	3.49 (3.05-4.07)	4.24 (3.59-5.10)	4.81 (3.99-5.91)	5.38 (4.36-6.78)	5.97 (4.71-7.73)	6.77 (5.12-9.13)	7.38 (5.40-10.3)
2-day	2.12 (1.88-2.45)	2.81 (2.48-3.24)	3.70 (3.26-4.28)	4.43 (3.88-5.17)	5.42 (4.60-6.54)	6.19 (5.14-7.61)	6.97 (5.65-8.78)	7.77 (6.13-10.1)	8.86 (6.71-12.0)	9.71 (7.10-13.5)
3-day	2.30 (2.04-2.66)	3.07 (2.72-3.55)	4.09 (3.61-4.74)	4.93 (4.32-5.75)	6.09 (5.16-7.34)	6.99 (5.80-8.59)	7.91 (6.41-9.96)	8.86 (6.99-11.5)	10.2 (7.70-13.7)	11.2 (8.19-15.6)
4-day	2.47 (2.19-2.85)	3.33 (2.94-3.84)	4.46 (3.94-5.16)	5.40 (4.73-6.30)	6.70 (5.68-8.07)	7.72 (6.40-9.49)	8.76 (7.10-11.0)	9.86 (7.77-12.8)	11.4 (8.60-15.3)	12.5 (9.18-17.5)
7-day	2.83 (2.50-3.26)	3.86 (3.41-4.45)	5.24 (4.62-6.06)	6.39 (5.59-7.45)	7.99 (6.76-9.62)	9.24 (7.67-11.4)	10.5 (8.54-13.3)	11.9 (9.38-15.4)	13.8 (10.4-18.6)	15.3 (11.2-21.3)
10-day	3.06 (2.71-3.52)	4.21 (3.73-4.86)	5.77 (5.09-6.67)	7.06 (6.18-8.24)	8.87 (7.51-10.7)	10.3 (8.54-12.7)	11.8 (9.53-14.8)	13.3 (10.5-17.2)	15.5 (11.7-20.9)	17.2 (12.6-24.0)
20-day	3.76 (3.33-4.34)	5.25 (4.64-6.05)	7.26 (6.40-8.40)	8.95 (7.83-10.4)	11.3 (9.58-13.6)	13.2 (10.9-16.2)	15.1 (12.3-19.1)	17.2 (13.6-22.3)	20.1 (15.2-27.1)	22.4 (16.4-31.2)
30-day	4.43 (3.93-5.11)	6.18 (5.47-7.13)	8.56 (7.55-9.90)	10.6 (9.24-12.3)	13.4 (11.3-16.1)	15.6 (13.0-19.2)	17.9 (14.5-22.6)	20.4 (16.1-26.4)	23.9 (18.1-32.2)	26.6 (19.5-37.2)
45-day	5.33 (4.72-6.14)	7.36 (6.51-8.49)	10.1 (8.94-11.7)	12.5 (10.9-14.6)	15.8 (13.4-19.0)	18.4 (15.3-22.7)	21.2 (17.2-26.7)	24.1 (19.0-31.2)	28.2 (21.4-38.1)	31.5 (23.1-44.0)
60-day	6.26 (5.54-7.21)	8.55 (7.56-9.86)	11.7 (10.3-13.5)	14.3 (12.5-16.7)	18.1 (15.3-21.7)	21.0 (17.5-25.9)	24.2 (19.6-30.4)	27.5 (21.7-35.6)	32.2 (24.3-43.4)	35.9 (26.3-50.1)

[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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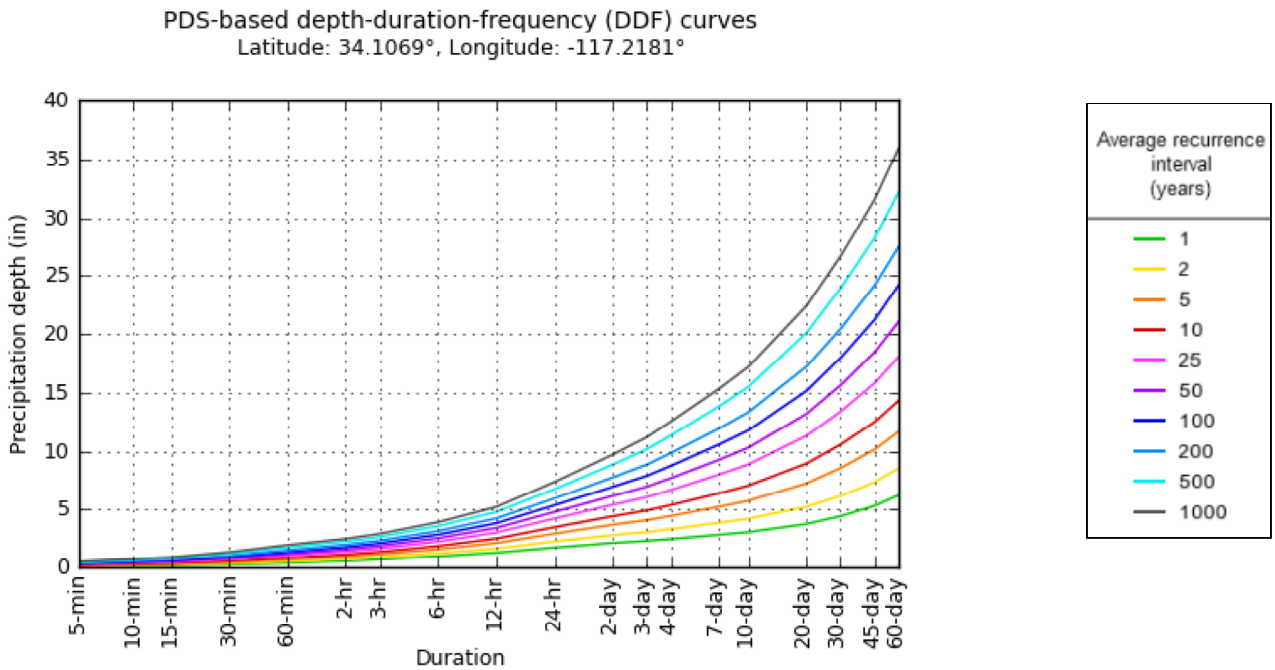
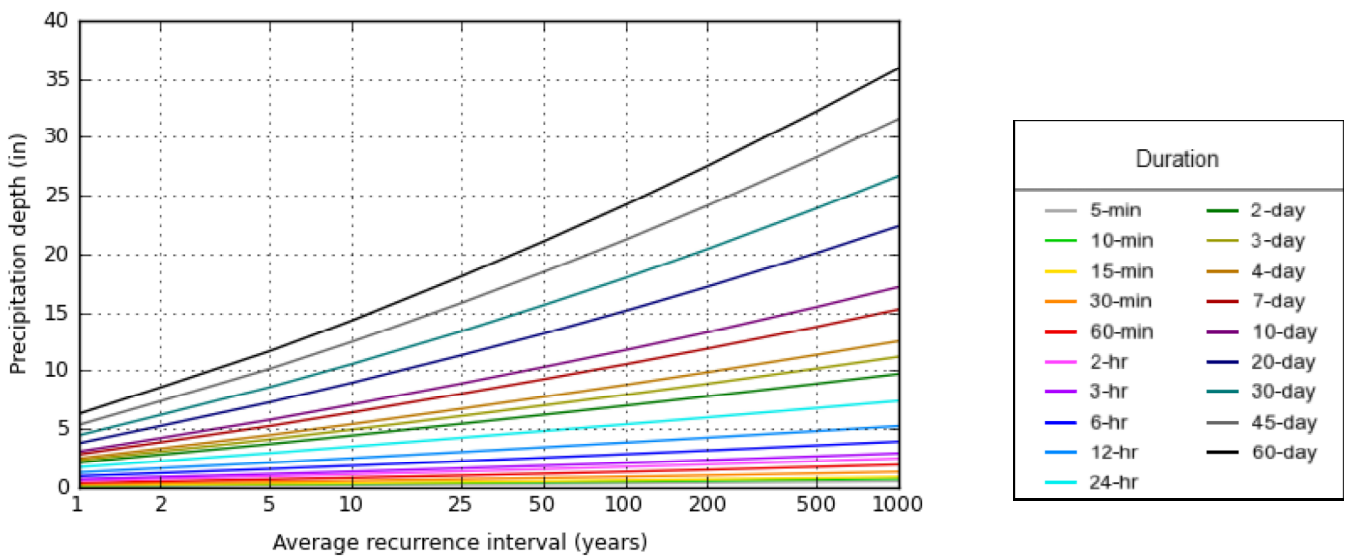
PF graphical





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Created (GMT): Wed Nov 24 22:43:03 2021

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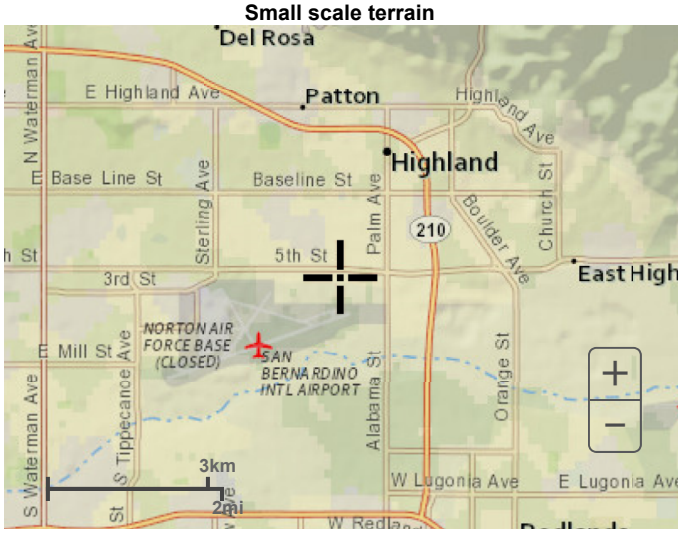
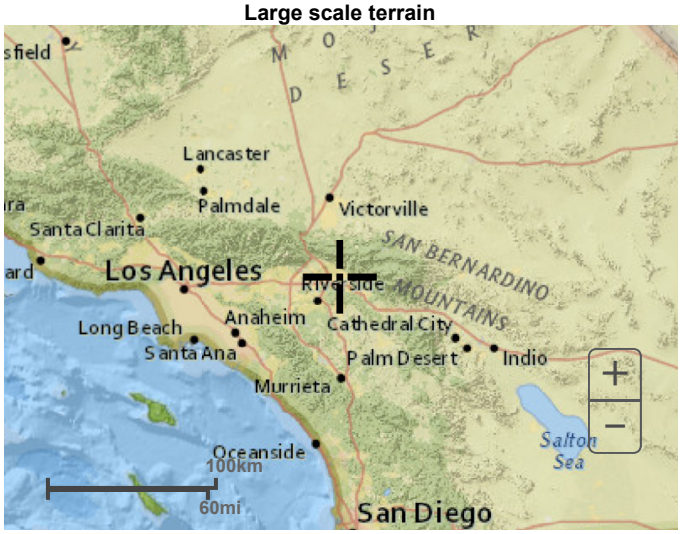
Maps & aerials

Small scale terrain



Large scale terrain



Large scale map

Large scale aerial

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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

Form 4.2-2 Summary of HCOC Assessment (DA 1)

Does project have the potential to cause or contribute to an HCOC in a downstream channel: Yes ☐ No ☒

Go to: *http://permitrack.sbcounty.gov/wap/*

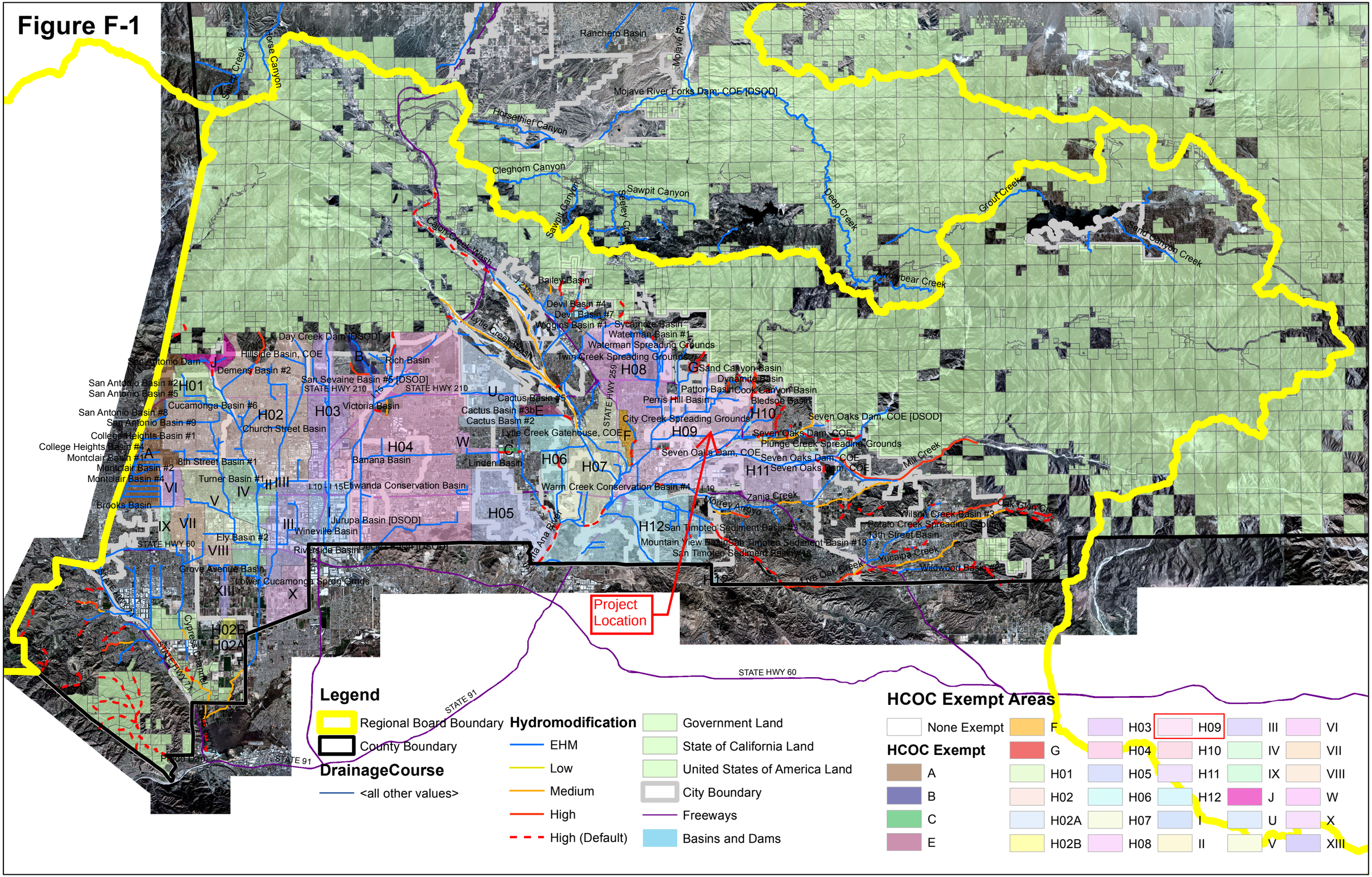
If "Yes", then complete HCOC assessment of site hydrology for 2yr storm event using Forms 4.2-3 through 4.2-5 and insert results below

(Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual)

If "No," then proceed to Section 4.3 Project Conformance Analysis

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	**1** N/A *Form 4.2-3 Item 12*	**2** N/A *Form 4.2-4 Item 13*	**3** N/A *Form 4.2-5 Item 10*
Post-developed	**4** N/A *Form 4.2-3 Item 13*	**5** N/A *Form 4.2-4 Item 14*	**6** N/A *Form 4.2-5 Item 14*
Difference	**7** N/A *Item 4 – Item 1*	**8** N/A *Item 2 – Item 5*	**9** N/A *Item 6 – Item 3*
Difference (as % of pre-developed)	**10** N/A % *Item 7 / Item 1*	**11** N/A % *Item 8 / Item 2*	**12** N/A % *Item 9 / Item 3*

Figure F-1



Project Location
Legend
Regional Board Boundary
County Boundary
DrainageCourse
<all other values>
Hydromodification
EHM
Low
Medium
High
High (Default)
Government Land
State of California Land
United States of America Land
City Boundary
Freeways
Basins and Dams
HCOC Exempt Areas
None Exempt
HCOC Exempt
A
B
C
E
F
G
H01
H02
H02A
H02B
H03
H04
H05
H06
H07
H08
H09
H10
H11
H12
I
II
III
IV
V
VI
VII
VIII
IX
J
U
W
X
XIII
Ranchero Basin
Mojave River
Mojave River Forks Dam, COE [DSOD]
Horsethief Canyon
Cleghorn Canyon
Sawpit Canyon
Deep Creek
Grout Creek
Sand Canyon Creek
Arrowbear Creek
Cajon Creek Wash
Lytle Creek Wash
Bailey Basin
Devil Basin #4
Devil Basin #7
Wiggins Basin #1
Sycamore Basin
Waterman Basin #1
Waterman Spreading Grounds
Twin Creek Spreading Grounds
Day Creek Dam [DSOD]
Hillside Basin, COE
Demens Basin #2
San Antonio Dam
San Antonio Basin #2
San Antonio Basin #5
San Antonio Basin #8
San Antonio Basin #9
Cucamonga Basin #6
College Heights Basin #1
College Heights Basin #4
Montclair Basin #1
Montclair Basin #2
Montclair Basin #4
8th Street Basin #1
Turner Basin #1
Brooks Basin
Ely Basin #2
Grove Avenue Basin
Lower Cucamonga Sprdg Grnds
Rich Basin
San Sevaine Basin #5 [DSOD]
Victoria Basin
Church Street Basin
Banana Basin
Etiwanda Conservation Basin
Jurupa Basin [DSOD]
Wineville Basin
Riverside Basin
Cactus Basin #5
Cactus Basin #3b
Cactus Basin #2
Lytle Creek Gatehouse, COE
Linden Basin
Warm Creek Conservation Basin #4
Sand Canyon Basin
Dynamite Basin
Patton Basin
Cook Canyon Basin
Perris Hill Basin
Bledsoe Basin
City Creek Spreading Grounds
Seven Oaks Dam, COE [DSOD]
Seven Oaks Dam, COE
Plunge Creek Spreading Grounds
Zanja Creek
Morrey Arroyo
San Timoteo Sediment Basin #3
Mountain View Basin
San Timoteo Sediment Basin #13
San Timoteo Sediment Basin #18
Wilson Creek Basin #3
Potato Creek Spreading Grounds
13th Street Basin
Yucaipa Creek
Wildwood Basin #2
Oak Glen Creek
Mill Creek
Live Oak Creek
Cypress Channel
Prado Dam
STATE HWY 210
STATE HWY 259
STATE HWY 60
STATE HWY 71
STATE 91

Hydromodification

A.1 Hydrologic Conditions of Concern (HCOC) Analysis

HCOC Exemption:

1. **Sump Condition:** All downstream conveyance channel to an adequate sump (for example, Prado Dam, 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 Sensitivity Maps.

2. **Pre = Post**: The runoff flow rate, volume and velocity for the post-development condition of the Priority Development Project do not exceed the pre-development (i.e, naturally occurring condition for the 2-year, 24-hour rainfall event utilizing latest San Bernardino County Hydrology Manual.

    a. Submit a substantiated hydrologic analysis to justify your request.

3. **Diversion to Storage Area**: The drainage areas that divert to water storage areas which are considered as control/release point and utilized for water conservation.

    a. See Appendix F for the HCOC Exemption Map and the on-line Watershed Geodatabase (http://sbcounty.permitrack.com/wap) for reference.

4. **Less than One Acre**: The Priority Development Project disturbs less than one acre. The Co-permittee 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 project disturbs less than one acre and is not part of a common plan of development.

5. **Built Out Area**: The contributing watershed area to which the project discharges has a developed area percentage greater than 90 percent.

    a. See Appendix F for the HCOC Exemption Map and the on-line Watershed Geodatabase (http://sbcounty.permitrack.com/wap) for reference.

Summary of HCOC Exempted Area

	HCOC Exemption reasoning				
	1	2	3	4	5
Area					
A			X		X
B			X		
C					X
E			X		
F					X
G			X		X
H01	X		X		
H02	X		X		
H02A	X		X		
H02B			X		
H03			X		
H04	X		X		
H05	X				
H06			X		
H07	X				
H08	X		X		
H09	X				
H10	X		X		
H11	X		X		
H12	X				
J			X		
U			X		
W			X		
I			X		
II			X		
III					X
IV			X		X
V			X*		
VI					X
VII					X
VIII			X		
IX					X
X			X		
XIII			X		

*Detention/Conservation Basin

Form 4.2-3 HCOC Assessment for Runoff Volume (DA 1) (N/A)

Weighted Curve Number Determination for: Pre-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1a Land Cover type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2a Hydrologic Soil Group (HSG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3a DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4a Curve Number (CN) *use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Weighted Curve Number Determination for: Post-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1b Land Cover type	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2b Hydrologic Soil Group (HSG)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3b DMA Area, ft^2 *sum of areas of DMA should equal area of DA*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4b Curve Number (CN) *use Items 5 and 6 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

5 Pre-Developed area-weighted CN: N/A	**7** Pre-developed soil storage capacity, S (in): N/A *S = (1000 / Item 5) - 10*	**9** Initial abstraction, I_a (in): N/A *I_a = 0.2 * Item 7*
6 Post-Developed area-weighted CN: N/A	**8** Post-developed soil storage capacity, S (in): N/A *S = (1000 / Item 6) - 10*	**10** Initial abstraction, I_a (in): N/A *I_a = 0.2 * Item 8*

11 Precipitation for 2 yr, 24 hr storm (in): N/A
Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

12 Pre-developed Volume (ft^3): N/A
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*

13 Post-developed Volume (ft^3): N/A
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*

14 Volume Reduction needed to meet HCOC Requirement, (ft^3): N/A
*V_{HCOC} = (Item 13 * 0.95) – Item 12*

Form 4.2-4 HCOC Assessment for Time of Concentration (DA 1) (N/A)

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA1 *Use additional forms if there are more than 4 DMA*				Post-developed DA1 *Use additional forms if there are more than 4 DMA*			
	DMA A	DMA B	DMA C	DMA D	DMA A	DMA B	DMA C	DMA D
1 Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Change in elevation (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Slope (ft/ft), *S_o = Item 2 / Item 1*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Land cover	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5 Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6 Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7 Cross-sectional area of channel (ft^2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8 Wetted perimeter of channel (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9 Manning's roughness of channel (n)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Channel flow velocity (ft/sec) *V_{fps} = (1.49 / Item 9) * (Item 7/Item 8)^0.67 * (Item 3)^0.5*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11 Travel time to outlet (min) *T_t = Item 6 / (Item 10 * 60)*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 Total time of concentration (min) *T_c = Item 5 + Item 11*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

13 Pre-developed time of concentration (min): N/A *Minimum of Item 12 pre-developed DMA*

14 Post-developed time of concentration (min): N/A *Minimum of Item 12 post-developed DMA*

15 Additional time of concentration needed to meet HCOC requirement (min): N/A *$T_{C\text{-}HCOC}$ = (Item 13 * 0.95) – Item 14*

Form 4.2-5 HCOC Assessment for Peak Runoff (DA 1) (N/A)

Compute peak runoff for pre- and post-developed conditions

Variables		Pre-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*			Post-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*		
		DMA A	DMA B	DMA C	DMA A	DMA B	DMA C
1 Rainfall Intensity for storm duration equal to time of concentration *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.6 LOG Form 4.2-4 Item 5 /60)*		N/A	N/A	N/A	N/A	N/A	N/A
2 Drainage Area of each DMA (Acres) *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		N/A	N/A	N/A	N/A	N/A	N/A
3 Ratio of pervious area to total area *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		N/A	N/A	N/A	N/A	N/A	N/A
4 Pervious area infiltration rate (in/hr) *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*		N/A	N/A	N/A	N/A	N/A	N/A
5 Maximum loss rate (in/hr) *F_m = Item 3 * Item 4* *Use area-weighted F_m from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*		N/A	N/A	N/A	N/A	N/A	N/A
6 Peak Flow from DMA (cfs) *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*		N/A	N/A	N/A	N/A	N/A	N/A
7 Time of concentration adjustment factor for other DMA to site discharge point *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	DMA A	*n/a*	N/A	N/A	*n/a*	N/A	N/A
	DMA B	N/A	*n/a*	N/A	N/A	*n/a*	N/A
	DMA C	N/A	N/A	*n/a*	N/A	N/A	*n/a*

8 Pre-developed Q_p at T_c for DMA A: N/A *Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAA/3}$]*	**9** Pre-developed Q_p at T_c for DMA B: N/A *Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAB/3}$]*	**10** Pre-developed Q_p at T_c for DMA C: N/A *Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAC/2}$]*

10 Peak runoff from pre-developed condition confluence analysis (cfs): N/A *Maximum of Item 8, 9, and 10 (including additional forms as needed)*

11 Post-developed Q_p at T_c for DMA A: N/A *Same as Item 8 for post-developed values*	**12** Post-developed Q_p at T_c for DMA B: N/A *Same as Item 9 for post-developed values*	**13** Post-developed Q_p at T_c for DMA C: N/A *Same as Item 10 for post-developed values*

14 Peak runoff from post-developed condition confluence analysis (cfs): N/A *Maximum of Item 11, 12, and 13 (including additional forms as needed)*

15 Peak runoff reduction needed to meet HCOC Requirement (cfs): N/A *$Q_{p\text{-}HCOC}$ = (Item 14 * 0.95) – Item 10*

4.3 Project Conformance Analysis

Complete the following forms for each project site DA to document that the proposed LID BMPs conform to the project DCV developed to meet performance criteria specified in the MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the MS4 Permit (see Section 5.3.1 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design and Hydrologic Source Controls (Form 4.3-2)
- Retention and Infiltration (Form 4.3-3)
- Harvested and Use (Form 4.3-4) or
- Biotreatment (Form 4.3-5).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2.1 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Forms 4.3-2 and 4.3-4 to determine the feasibility of applicable HSC and harvest and use BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable HSC BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of LID HSC, retention and infiltration, and harvest and use BMPs are unable to mitigate the entire DCV, then biotreatment BMPs may be implemented by the project proponent. If biotreatment BMPs are used, then they must be sized to provide sufficient capacity for effective treatment of the remainder of the volume-based performance criteria that cannot be achieved with LID BMPs (TGD for WQMP Section 5.4.4.2). **Under no circumstances shall any portion of the DCV be released from the site without effective mitigation and/or treatment**.

Form 4.3-1 Infiltration BMP Feasibility (DA 1)

Feasibility Criterion – Complete evaluation for each DA on the Project Site

[1] Would infiltration BMP pose significant risk for groundwater related concerns? Yes ☐ No ☒
Refer to Section 5.3.2.1 of the TGD for WQMP

If Yes, Provide basis: (attach)

[2] Would installation of infiltration BMP significantly increase the risk of geotechnical hazards? Yes ☐ No ☒
(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):

- The location is less than 50 feet away from slopes steeper than 15 percent
- The location is less than eight feet from building foundations or an alternative setback.
- A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.

If Yes, Provide basis: (attach)

[3] Would infiltration of runoff on a Project site violate downstream water rights? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[4] Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[5] Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? Yes ☐ No ☒

If Yes, Provide basis: (attach)

[6] Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? Yes ☐ No ☒
See Section 3.5 of the TGD for WQMP and WAP

If Yes, Provide basis: (attach)

[7] Any answer from Item 1 through Item 3 is "Yes": Yes ☐ No ☒
If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 8 below.

[8] Any answer from Item 4 through Item 6 is "Yes": Yes ☐ No ☒
If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP.
If no, then proceed to Item 9, below.

[9] All answers to Item 1 through Item 6 are "No":
Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.
Proceed to Form 4.3-2, Hydrologic Source Control BMP.

4.3.1 Site Design Hydrologic Source Control BMP

Section XI.E. of the Permit emphasizes the use of LID preventative measures; and the use of LID HSC BMPs reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable HSC shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of HSC, if a project cannot feasibly meet BMP sizing requirements or cannot fully address HCOCs, feasibility of all applicable HSC must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design HSC BMP. Refer to Section 5.4.1 in the TGD for more detailed guidance.

Form 4.3-2 Site Design Hydrologic Source Control BMPs (DA 1)			
1 Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP: Yes ☐ No ☒ *If yes, complete Items 2-5; If no, proceed to Item 6*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Total impervious area draining to pervious area (ft^2)			
3 Ratio of pervious area receiving runoff to impervious area			
4 Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
5 Sum of retention volume achieved from impervious area dispersion (ft^3): 0 $V_{retention}$ *=Sum of Item 4 for all BMPs*			
6 Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): Yes ☐ No ☒ *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
7 Ponding surface area (ft^2)			
8 Ponding depth (ft)			
9 Surface area of amended soil/gravel (ft^2)			
10 Average depth of amended soil/gravel (ft)			
11 Average porosity of amended soil/gravel			
12 Retention volume achieved from on-lot infiltration (ft^3) $V_{retention}$ *= (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
13 Runoff volume retention from on-lot infiltration (ft^3): 0 $V_{retention}$ *=Sum of Item 12 for all BMPs*			

Form 4.3-2 cont. Site Design Hydrologic Source Control BMPs (DA 1)

14 Implementation of evapotranspiration BMP (green, brown, or blue roofs): Yes ☐ No ☒ *If yes, complete Items 15-20. If no, proceed to Item 21*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
15 Rooftop area planned for ET BMP (ft^2)			
16 Average wet season ET demand (in/day) *Use local values, typical ~ 0.1*			
17 Daily ET demand (ft^3/day) *Item 15 * (Item 16 / 12)*			
18 Drawdown time (hrs) *Copy Item 6 in Form 4.2-1*			
19 Retention Volume (ft^3) *$V_{retention}$ = Item 17 * (Item 18 / 24)*			
20 Runoff volume retention from evapotranspiration BMPs (ft^3): 0 *$V_{retention}$ =Sum of Item 19 for all BMPs*			
21 Implementation of Street Trees: Yes ☐ No ☒ *If yes, complete Items 22-25. If no, proceed to Item 26*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
22 Number of Street Trees			
23 Average canopy cover over impervious area (ft^2)			
24 Runoff volume retention from street trees (ft^3) *$V_{retention}$ = Item 22 * Item 23 * (0.05/12) assume runoff retention of 0.05 inches*			
25 Runoff volume retention from street tree BMPs (ft^3): 0 *$V_{retention}$ = Sum of Item 24 for all BMPs*			
26 Implementation of residential rain barrel/cisterns: Yes☐ No ☒ *If yes, complete Items 27-29; If no, proceed to Item 30*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
27 Number of rain barrels/cisterns			
28 Runoff volume retention from rain barrels/cisterns (ft^3) *$V_{retention}$ = Item 27 * 3*			
29 Runoff volume retention from residential rain barrels/Cisterns (ft3): 0 *$V_{retention}$ =Sum of Item 28 for all BMPs*			
30 Total Retention Volume from Site Design Hydrologic Source Control BMPs: 0 *Sum of Items 5, 13, 20, 25 and 29*			

4.3.2 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix D of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5.1 of the TGD for WQMP)

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

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Form 4.3-3 Infiltration LID BMP - including underground BMPs (DA 1)

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 9,936 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*	DA 1 DMA - BMP Type: UG System	DA DMA BMP Type	DA DMA BMP Type
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	50.4 (see Infiltration Report in attachment D)	-	-
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	5 per Worksheet H, See Attachment D	-	-
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*	2.4	-	-
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48	-	-
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	9.6	-	-
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*	6	-	-
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*	35' x 70' See Attachment B	-	-
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	N/A	-	-
10 Amended soil porosity	N/A	-	-
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	N/A	-	-
12 Gravel porosity	N/A	-	-
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	N/A	-	-
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	N/A	-	-
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*	11,780	-	-
16 Total Retention Volume from LID Infiltration BMPs: 11,780 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 119% *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? Yes ☒ No ☐ *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

4.3.3 Harvest and Use BMP (N/A)

Harvest and use BMP may be considered if the full LID DCV cannot be met by maximizing infiltration BMPs. Use Form 4.3-4 to compute on-site retention of runoff from proposed harvest and use BMPs.

Volume retention estimates for harvest and use BMPs are sensitive to the on-site demand for captured stormwater. Since irrigation water demand is low in the wet season, when most rainfall events occur in San Bernardino County, the volume of water that can be used within a specified drawdown period is relatively low. The bottom portion of Form 4.3-4 facilitates the necessary computations to show infeasibility if a minimum incremental benefit of 40 percent of the LID DCV would not be achievable with MEP implementation of on-site harvest and use of stormwater (Section 5.5.4 of the TGD for WQMP).

Form 4.3-4 Harvest and Use BMPs (DA 1) (N/A)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3): 0
V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility			
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			

9 Total Retention Volume (ft^3) from Harvest and Use BMP0 *Sum of Item 8 for all harvest and use BMP included in plan*

10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? Yes ☐ No ☐
If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.

4.3.4 Biotreatment BMP (N/A)

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration, and harvest and use BMPs. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-5 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV w. Biotreatment computations are included as follows:

- Use Form 4.3-6 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-7 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-8 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-5 Selection and Evaluation of Biotreatment BMP (DA 1) (N/A)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): *Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	List pollutants of concern *Copy from Form 2.3-1.*	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	Volume-based biotreatment *Use Forms 4.3-6 and 4.3-7 to compute treated volume*	Flow-based biotreatment *Use Form 4.3-8 to compute treated volume*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4** Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3): *Item 1 – Item 3*	**5** Remaining fraction of LID DCV for sizing flow based biotreatment BMP: % *Item 4 / Item 1*
6 Flow-based biotreatment BMP capacity provided (cfs): *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*		
7 Metrics for MEP determination: • Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*		

Form 4.3-6 Volume Based Biotreatment (DA 1) – Bioretention and Planter Boxes with Underdrains (N/A)

Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
2 Amended soil infiltration rate *Typical ~ 5.0*			
3 Amended soil infiltration safety factor *Typical ~ 2.0*			
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*			
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
8 Amended soil surface area (ft^2)			
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity, *n*			
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
12 Gravel porosity, *n*			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: 0 *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-7 Volume Based Biotreatment (DA 1) – Constructed Wetlands and Extended Detention (N/A)

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (e.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	DA DMA BMP Type		DA DMA BMP Type *(Use additional forms for more BMPs)*	
	Forebay	Basin	Forebay	Basin
1 Pollutants addressed with BMP forebay and basin *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*				
2 Bottom width (ft)				
3 Bottom length (ft)				
4 Bottom area (ft^2) A_{bottom} = *Item 2 * Item 3*				
5 Side slope (ft/ft)				
6 Depth of storage (ft)				
7 Water surface area (ft^2) $A_{surface}$ =*(Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*				
8 Storage volume (ft^3) *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details* V =*Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)^0.5]*				
9 Drawdown Time (hrs) *Copy Item 6 from Form 2.1*				
10 Outflow rate (cfs) Q_{BMP} = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) / (Item 9 * 3600)*				
11 Duration of design storm event (hrs)				
12 Biotreated Volume (ft^3) $V_{biotreated}$ = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) +(Item 10 * Item 11 * 3600)*				
13 Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention : 0 *(Sum of Item 12 for all BMP included in plan)*				

Form 4.3-8 Flow Based Biotreatment (DA 1) (N/A)			
Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*			
2 Flow depth for water quality treatment (ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
3 Bed slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
4 Manning's roughness coefficient			
5 Bottom width (ft) b_w *= (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item 2^1.67 * Item 3^0.5)*			
6 Side Slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Cross sectional area (ft^2) *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
8 Water quality flow velocity (ft/sec) *V = Form 4.3-5 Item 6 / Item 7*			
9 Hydraulic residence time (min) *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Length of flow based BMP (ft) *L = Item 8 * Item 9 * 60*			
11 Water surface area at water quality flow depth (ft^2) SA_{top} *= (Item 5 + (2 * Item 2 * Item 6)) * Item 10*			

4.3.5 Conformance Summary

Complete Form 4.3-9 to demonstrate how on-site LID DCV is met with proposed site design hydrologic source control, infiltration, harvest and use, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-9 Conformance Summary and Alternative Compliance Volume Estimate (DA 1)

1 Total LID DCV for the Project DA-1 (ft^3): 9,936 *Copy Item 7 in Form 4.2-1*

2 On-site retention with site design hydrologic source control LID BMP (ft^3): 0 *Copy Item 30 in Form 4.3-2*

3 On-site retention with LID infiltration BMP (ft^3): 11,780 *Copy Item 16 in Form 4.3-3*

4 On-site retention with LID harvest and use BMP (ft^3): 0 *Copy Item 9 in Form 4.3-4*

5 On-site biotreatment with volume based biotreatment BMP (ft^3): 0 *Copy Item 3 in Form 4.3-5*

6 Flow capacity provided by flow based biotreatment BMP (cfs): 0 *Copy Item 6 in Form 4.3-5*

7 LID BMP performance criteria are achieved if answer to any of the following is "Yes":

- Full retention of LID DCV with site design HSC, infiltration, or harvest and use BMP: Yes ☒ No ☐
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: Yes ☐ No ☐
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible and biotreatment BMP provide biotreatment for all pollutants of concern for full LID DCV: Yes ☐ No ☐
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

8 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of HSC, retention and infiltration, harvest and use, and biotreatment BMPs provide less than full LID DCV capture: ☐
  Checked yes for Form 4.3-5 Item 7, Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} *= (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*
- An approved Watershed Action Plan (WAP) demonstrates that water quality and hydrologic impacts of urbanization are more effective when managed in at an off-site facility: ☐
  Attach appropriate WAP section, including technical documentation, showing effectiveness comparisons for the project site and regional watershed

4.3.6 Hydromodification Control BMP

Use Form 4.3-10 to compute the remaining runoff volume retention, after LID BMP are implemented, needed to address HCOC, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential HCOC. Describe hydromodification control BMP that address HCOC, which may include off-site BMP and/or in-stream controls. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-10 Hydromodification Control BMPs (DA 1)	
1 Volume reduction needed for HCOC performance criteria (ft^3): 0 *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	**2** On-site retention with site design hydrologic source control, infiltration, and harvest and use LID BMP (ft^3): 11,780 *Sum of Form 4.3-9 Items 2, 3, and 4 Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving HCOC volume reduction*
3 Remaining volume for HCOC volume capture (ft^3): 0 *Item 1 – Item 2*	**4** Volume capture provided by incorporating additional on-site or off-site retention BMPs (ft^3): 0 *Existing downstream BMP may be used to demonstrate additional volume capture (if so, attach to this WQMP a hydrologic analysis showing how the additional volume would be retained during a 2-yr storm event for the regional watershed)*
5 If Item 4 is less than Item 3, incorporate in-stream controls on downstream waterbody segment to prevent impacts due to hydromodification ☐ *Attach in-stream control BMP selection and evaluation to this WQMP*	
6 Is Form 4.2-2 Item 11 less than or equal to 5%: Yes ☐ No ☐ *If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:* • Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site or off-site retention BMP ☐ *BMP upstream of a waterbody segment with a potential HCOC may be used to demonstrate increased time of concentration through hydrograph attenuation (if so, show that the hydraulic residence time provided in BMP for a 2-year storm event is equal or greater than the addition time of concentration requirement in Form 4.2-4 Item 15)* • Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities ☐ • Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐	
7 Form 4.2-2 Item 12 less than or equal to 5%: Yes ☐ No ☐ *If yes, HCOC performance criteria is achieved. If no, select one or more mitigation options below:* • Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site or off-site retention BMPs ☐ *BMPs upstream of a waterbody segment with a potential HCOC may be used to demonstrate additional peak runoff reduction through hydrograph attenuation (if so, attach to this WQMP, a hydrograph analysis showing how the peak runoff would be reduced during a 2-yr storm event)* • Incorporate appropriate in-stream controls for downstream waterbody segment to prevent impacts due to hydromodification, in a plan approved and signed by a licensed engineer in the State of California ☐	

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, harvest and use, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance. Alternative compliance plans may include one or more of the following elements:

- On-site structural treatment control BMP - All treatment control BMP should be located as close to possible to the pollutant sources and should not be located within receiving waters;
- Off-site structural treatment control BMP - Pollutant removal should occur prior to discharge of runoff to receiving waters;
- Urban runoff fund or In-lieu program, if available

Depending upon the proposed alternative compliance plan, approval by the executive officer may or may not be required (see Section 6 of the TGD for WQMP).

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMP included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and may require a Maintenance Agreement (consult the jurisdiction's LIP). If a Maintenance Agreement is required, it must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance (use additional forms as necessary)

BMP	Reponsible Party(s)	Inspection/ Maintenance Activities Required	Minimum Frequency of Activities
UG Infilt./ deten. System	Owner	- Inspect system for standing water. If system has standing water, perform re-inspection within 48 hours. If system still has standing water then the system shall be pumped and removed debris shall be disposed of in a legal manner. - Maintain UG-Infiltration Basin System is easiest when there is no flow entering the system. For this reason, maintenance should be scheduled during the dry weather (season). Accumulated sediment and trash can typically be evacuated through the manhole over the outlet orifice. Manhole cover should be securely seated following cleaning activities.	Quarterly and Prior to storm event and 48 hours after storm has passed
Loading Dock and Parking Lot Sweeping N15	Owner	Sweep loading dock and parking lot and truck courts.	Monthly / As needed.
Truck Dock N13	Owner	Inspect loading dock for trash debris and sediments. Inspect loading dock for evidence of spills and broken containers. Clean up spills and dispose of collected material in a legal manner.	Weekly
Planting N3	Owner	Inspect health of planting and erosion of landscape area. Trimming trees and bushes when needed.	Monthly

Efficient Irrigation S4	Owner	- Inspect irrigation system general operation and durations. - Repair damaged sprinkler and drip irrigation lines as needed. - Reduce durations during the winter season to prevent over irrigation.	Monthly
Storm drain system signage S1	Owner	Inspect Catch basin signage for faded or lost signs / repair or replace as needed.	Annualy
Trash Storage Areas and Litter Control (SD-32) N2	Owner	Inspect trash container, lids, screens and clean trash storage areas.	Weekly
Contech CDS Unit N17	Owner	Inspect system for sediment, floating trash and debris.	Quarterly and Prior to storm event and 48 hours after storm has passed
Employee Training / Education Program N12	Owner	Building tenants to provide BMP training and hand out educational materials.	Annually or upon hire

Section 6 WQMP Attachments

6.1. Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (as described in their local Local Implementation Plan), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP.

6.4 Other Supporting Documentation

- BMP Educational Materials
- Activity Restriction – C, C&R's & Lease Agreements

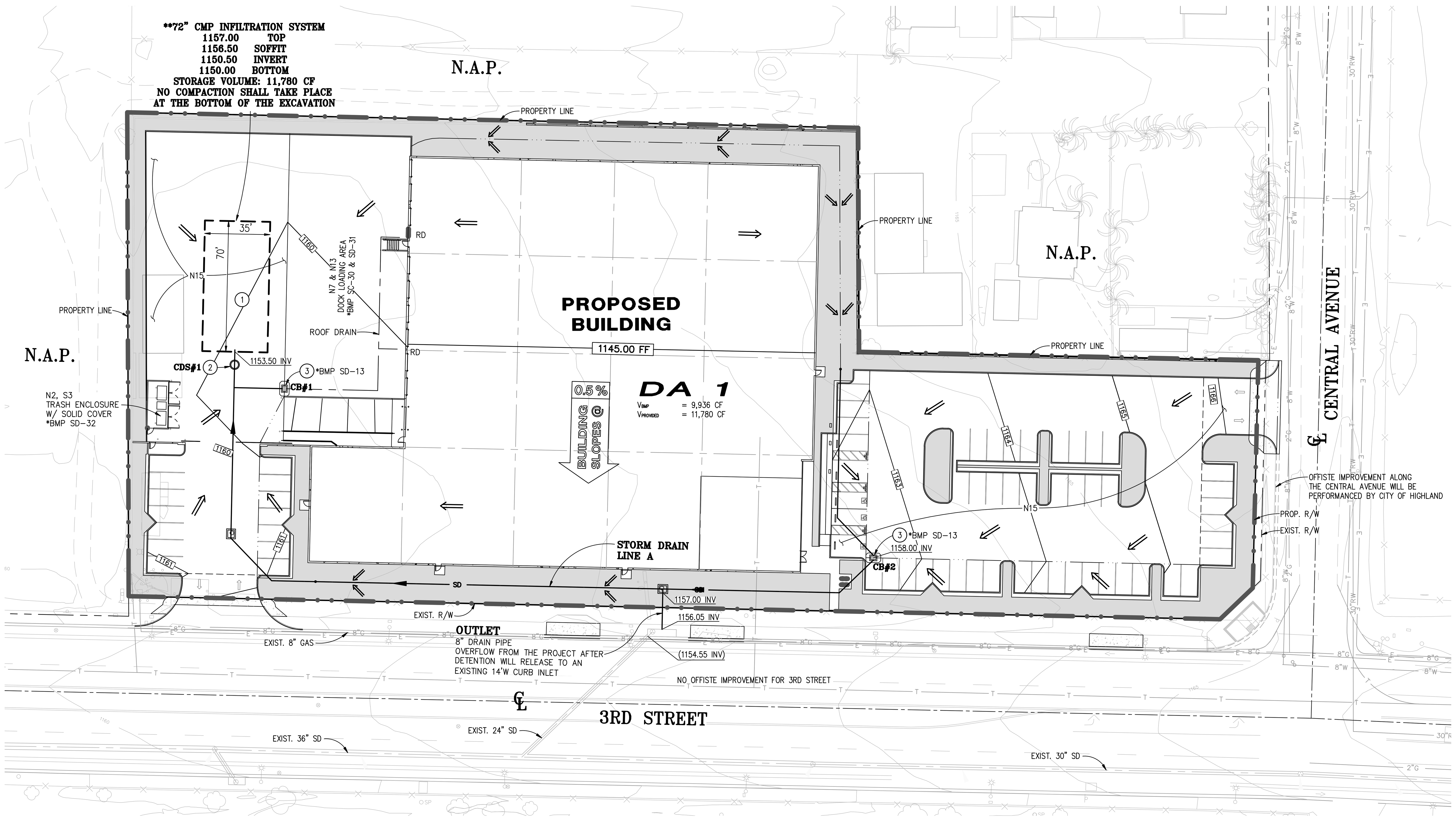
Attachment A
WQMP Site Plan

LEGEND

PROJECT LIMITS

VICINITY MAP

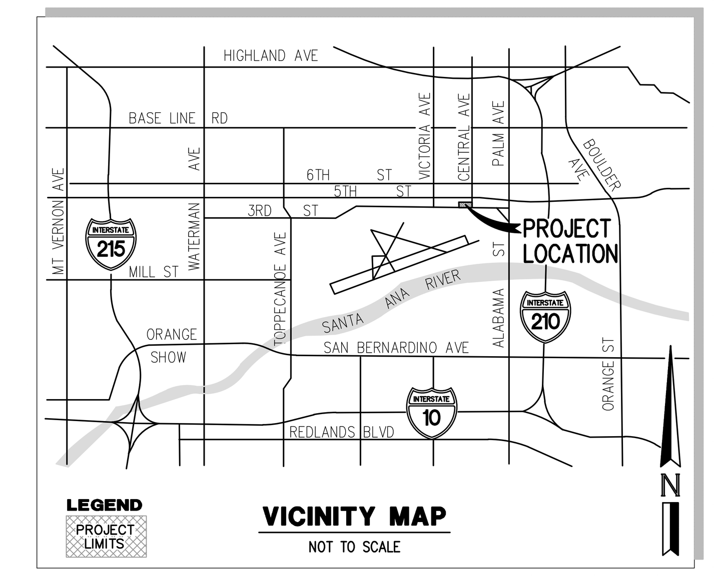
NOT TO SCALE



*SEE WQMP REPORT ATTACHMENT C FOR BMP FACT SHEETS

LEGEND

—SD—	PROPOSED STORM DRAIN
——···——	PROPOSED FLOWLINE
▬●▬	DRAINAGE AREA BOUNDARY
▭	PROPOSED CATCH BASIN INLET, SOURCE CONTROL BMP: N11, N14, N17, & S1
(shaded)	PROPOSED LANDSCAPING AREA – *BMP SD-10 & SD-12 SOURCE CONTROL BMP: N3, S4, & S5
CB	CATCH BASIN
RD	ROOF DRAIN
⟸	FLOW DIRECTION



VICINITY MAP
NOT TO SCALE

WQMP BMP NOTES

** (1) INSTALL INFILTRATION/DETENTION SYSTEM PER DETAIL HEREON
(2) INSTALL CONTECH CDS UNIT PER DETAIL HEREON
(3) INSTALL STORM DRAIN STENCIL, SEE SAMPLE HEREON

**THE UNDERGROUND SYSTEM IS ALSO SIZED TO DETAIN 100-YEAR STORM FOR MITIGATION.

SOURCE CONTROL BMPs INCLUDED ONSITE		
IDENTIFIER	DESCRIPTION OF BMP	RESPONSIBLE PARTY
N2	INSPECT/MAINTAIN TRASH CONTAINER	OWNER
N3	LANDSCAPE MAINTENANCE BMP'S	OWNER
N7	PROVIDE SPILL PLAN	OWNER
N11	LITTER/DEBRIS CONTROL PROGRAM	OWNER
N13	HOUSEKEEPING OF LOADING DOCKS	OWNER
N14	CATCH BASIN INSPECTION PROGRAM	OWNER
N15	VACUUM SWEEPING OF PARKING LOTS	OWNER
N17	NPDES COMPLIANCE	OWNER
S1	STORM DRAIN STENCILING	OWNER
S3	REDUCED WASTE STORAGE POLLUTION	OWNER
S4	EFFICIENT IRRIGATION SYSTEM	OWNER
S5	LANDSCAPING MIN. 1-2" BELOW PAVEMENT	OWNER

*SEE WQMP REPORT ATTACHMENT C FOR BMP FACT SHEET

(3) **STORM DRAIN STENCIL**
NOT TO SCALE

WQMP MANAGEMENT

	DMA Area (SF)	Imperviousness (%)	Runoff Coefficient	P 2yr-1hr	P6	Drawdown Rate	Design Capture Volume (CF)	BMP	LID BMP Volume Provided (CF)
DA 1	131,012	0.81	0.61	0.515	0.76	1.963	9,936	Underground Infiltration/ Detention System	11,780**

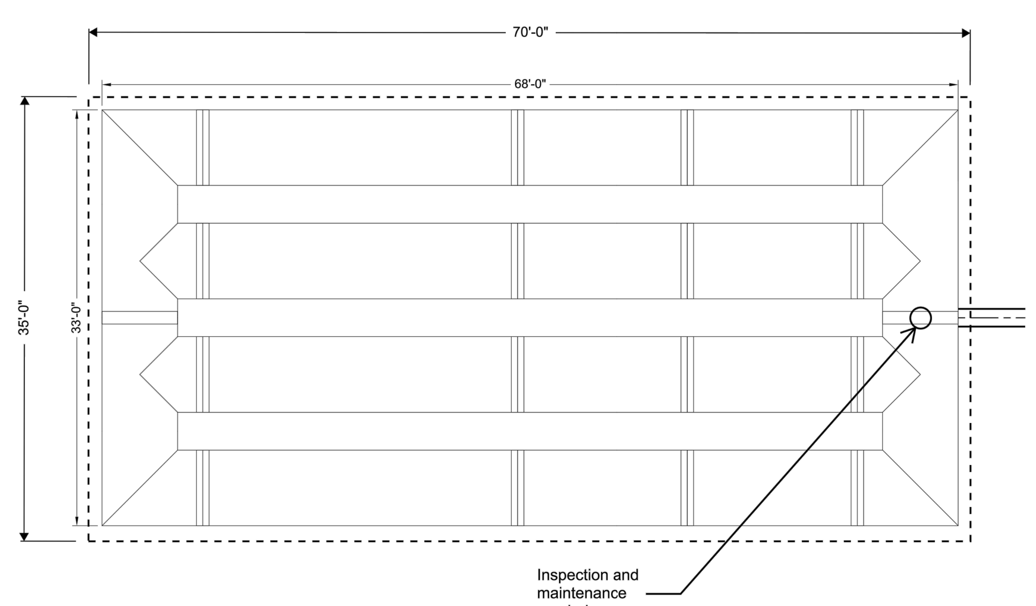
PROJECT SUMMARY

CALCULATION DETAILS
- LOADING = HS20 & HS25
- APPROX. LINEAR FOOTAGE = 290 lf.

STORAGE SUMMARY
- STORAGE VOLUME REQUIRED = 11,700 cf.
- PIPE STORAGE VOLUME = 8,200 cf.
- BACKFILL STORAGE VOLUME = 3,580 cf.
- TOTAL STORAGE PROVIDED = 11,780 cf.

PIPE DETAILS
- DIAMETER = 72 IN.
- CORRUGATION = 5x1
- GAGE = 16
- COATING = ALT2
- WALL TYPE = Perforated
- BARRELL SPACING = 36 IN.

BACKFILL DETAILS
- WIDTH AT ENDS = 12 IN.
- ABOVE PIPE = 6 IN.
- WIDTH AT SIDES = 12 IN.
- BELOW PIPE = 6 IN.



ASSEMBLY
SCALE: 1" = 10'

NOTES
- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2⅔" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
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DATE	REVISION DESCRIPTION	BY

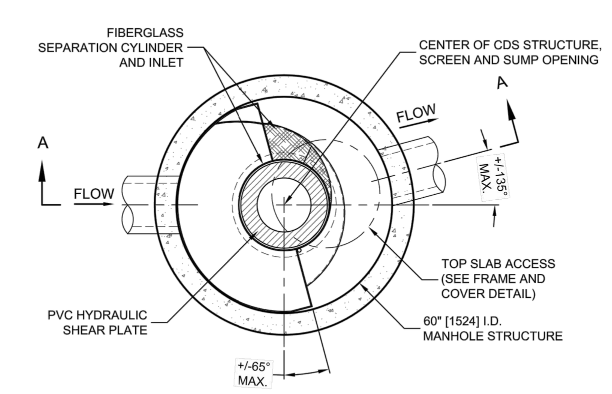
CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

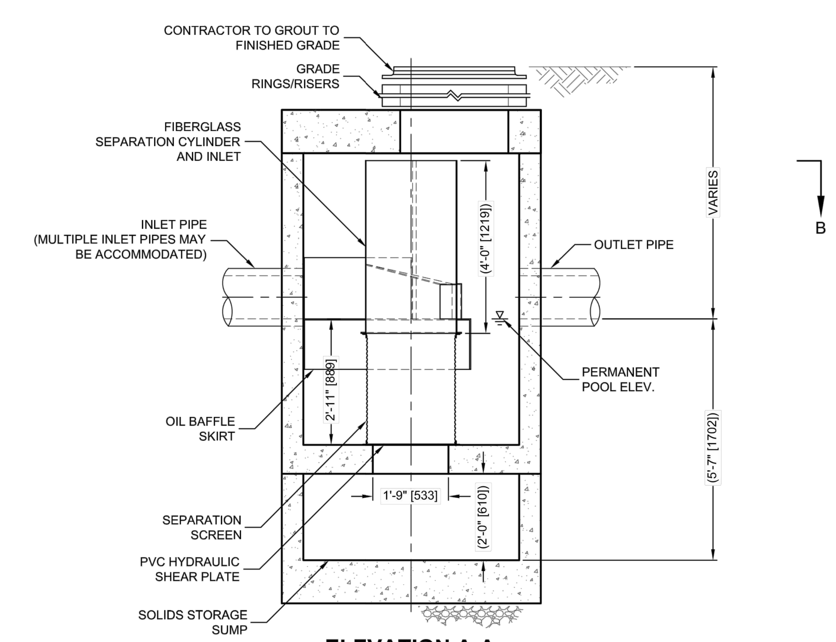
DYO11992 Patriot - 3rd at Central
72" CMP System
Highland, CA
DETENTION SYSTEM

PROJECT No.: 7498	SEQ. No.: 11992	DATE: 2/3/2022
DESIGNED: DYO		DRAWN: DYO
CHECKED: DYO		APPROVED: DYO
SHEET NO.: D1		

(1) **CONTECH 72" CMP SYSTEM**
NOT TO SCALE
SYSTEM DETAIL WILL BE PROVIDED IN FINAL WQMP



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.

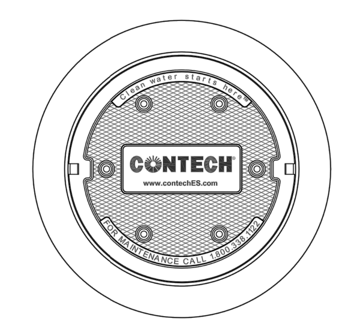
CDS

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,788,848; 6,641,720; 6,511,595; 6,581,783; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

CDS2025-5-C DESIGN NOTES

THE STANDARD CDS2025-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			CDS#1
WATER QUALITY FLOW RATE (CFS OR L/s)			0.49
PEAK FLOW RATE (CFS OR L/s)			12
RETURN PERIOD OF PEAK FLOW (YRS)			100
SCREEN APERTURE (2400 OR 4700)			2400
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	TBD	TBD	TBD
INLET PIPE 2			
OUTLET PIPE	TBD	TBD	TBD
RIM ELEVATION			1159.75
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

DETAIL WILL BE PROVIDED IN FINAL WQMP

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CDS2025-5-C
INLINE CDS
STANDARD DETAIL

(2) **CONTECH CDS 2025-5-C**
NOT TO SCALE
UNIT DETAIL WILL BE PROVIDED IN FINAL WQMP

N

0 15 30 60 90
SCALE 1" = 30'

ENGINEER
HUITT-ZOLLARS
3990 CONCOURS, SUITE 330
ONTARIO, CALIFORNIA 91764
PHONE: (909) 941-7799

OWNER
PATRIOT DEVELOPMENT PARTNERS
12126 W.SUNSET BLVD.
LOS ANGELES, CA 90049
PHONE: 858-952-4134
CONTACT: KEVIN RICE

CONCEPTUAL WATER QUALITY MANAGEMENT PLAN FOR 3RD AT CENTRAL INDUSTRIAL
CITY OF HIGHLAND

HUITT-ZOLLARS
HUITT-ZOLLARS, INC.
3990 CONCOURS, SUITE 330 * ONTARIO, CALIFORNIA 91764 * (909) 941-7799

DESIGNED BY	R.P.
DRAWN BY	R.P.
CHECKED BY	D.W.
FIELD BOOK	

SHEET 1 OF 1 SHEETS
JOB NO. 314509.01

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Attachment B

Supporting Calc's & Manufacturer's Details

PROJECT SUMMARY

CALCULATION DETAILS
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- APPROX. LINEAR FOOTAGE = 290 lf.

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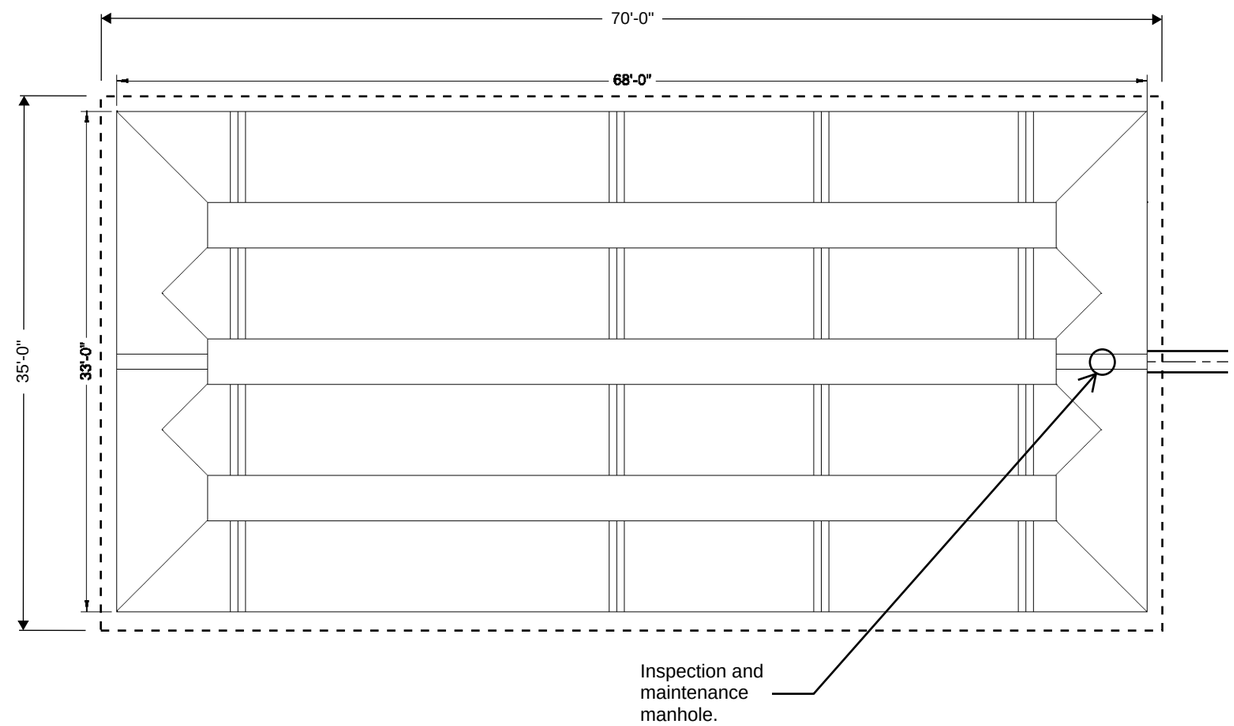
- BELOW PIPE = 6 IN.



NOTES

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- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE $2\frac{2}{3}$" x $\frac{1}{2}$" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
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ASSEMBLY
SCALE: 1" = 10'

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DATE	REVISION DESCRIPTION	BY

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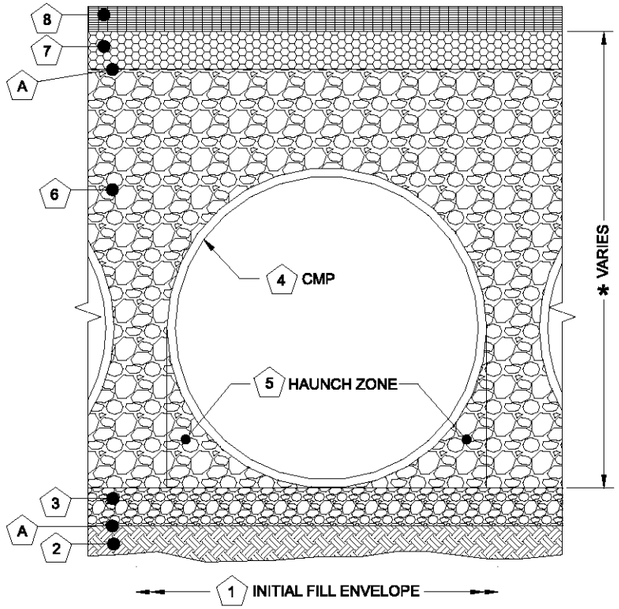
CONTECH®
CMP DETENTION SYSTEMS

CONTECH
DYODS
DRAWING

DYO11992 Patriot - 3rd at Central
72" CMP System
Highland, CA
DETENTION SYSTEM

PROJECT No.: 7498	SEQ. No.: 11992	DATE: 2/3/2022
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D1		



	Infiltration Systems - CMP Infiltration & CMP Perforated Drainage Pipe			
	Material Location	Description	Material Designation	Designation
8	Rigid or Flexible Pavement (If applicable)			
7	Road Base (If applicable			
A	Geotextile Layer	Non-Woven Geotextile	CONTECH C-40 or C-45	Engineer Decision for consideration to prevent soil migration into varying soil types. Wrap the trench only.
6	Backfill	Infiltration pipe systems have a pipe perforation sized of 3/8" diameter. An open graded, free draining stone, with a particle size of ¼" – 2 ½" diameter is recommended.	AASHTO M 145-A-1 or AASHTO M 43 - 3, 4	Material shall be worked into the pipe haunches by means of shovel-slicing, rodding, air-tamper, vibratory rod, or other effective methods. Compaction of all placed fill material is necessary and shall be considered adequate when no further yielding of the material is observed under the compactor, or under foot, and the Project Engineer or his representative is satisfied with the level of compaction"
3	Bedding Stone	Well graded granular bedding material w/maximum particle size of 3"	AASHTO M43 - 3,357,4,467, 5, 56, 57	For soil aggregates larger than 3/8" a dedicated bedding layer is not required for CMP. Pipe may be placed on the trench bottom comprised of native suitable well graded & granular material. For Arch pipes it is recommended to be shaped to a relatively flat bottom or fine-grade the foundation to a slight v-shape. Soil aggregates less than 3/8" and unsuitable material should be over-excavated and re-placed with a 4"-6" layer of well graded & granular stone per the material designation.
A	Geotextile Layer	None	None	Contech does not recommend geotextiles be placed under the invert of Infilitration systems due to the propensity for geotextiles to clog over time.
*	Note: The listed AASHTO designations are for gradation only. The stone must also be angular and clean.			

1 MINIMUM WIDTH DEPENDS ON SITE CONDITIONS AND ENGINEERING JUDGEMENT.

FOUNDATION/BEDDING PREPARATION

2 PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER.

5 HAUNCH ZONE MATERIAL SHALL BE PLACED AND UNIFORMLY COMPACTED WITHOUT SOFT SPOTS.

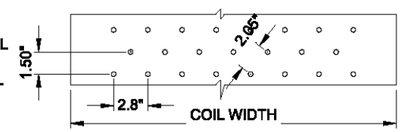
BACKFILL

MATERIAL SHALL BE PLACED IN 8"-10" MAXIMUM LIFTS. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-LIFT DIFFERENTIAL BETWEEN THE SIDES OF ANY PIPE IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.

EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE PIPE. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT. MAINTAIN BALANCED LOADING ON ALL PIPES IN THE SYSTEM DURING ALL SUCH OPERATIONS.

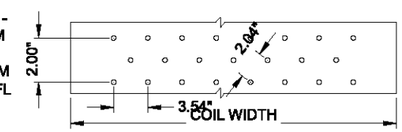
OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. REFER TO TYPICAL BACKFILL DETAIL FOR MATERIAL REQUIRED.

2 2/3" x 1/2" CORRUGATION - STEEL AND ALUMINUM CMP EDGE SPACING EQUAL ON BOTH SIDES



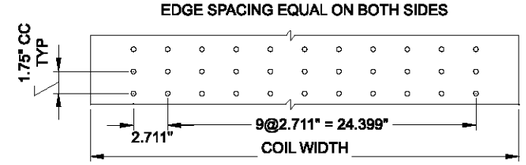
OPEN AREA = 3.76 SQ IN/SQ FT

3" x 1" CORRUGATION - STEEL AND ALUMINUM CMP (COIL PROVIDED FROM CONTECH LANTANA, FL PLANT)



OPEN AREA = 4.16 SQ IN/SQ FT

5" x 1" CORRUGATION - STEEL ONLY
EDGE SPACING EQUAL ON BOTH SIDES



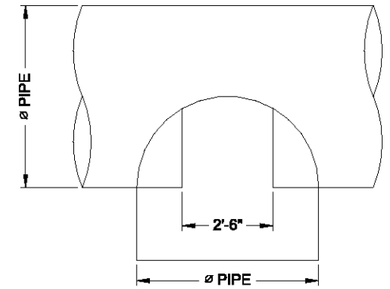
OPEN AREA = 3.33 SQ IN/SQ FT

NOTES:

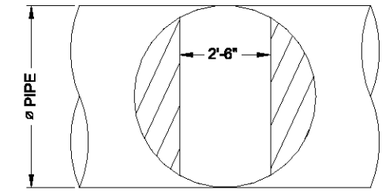
1. PERFORATIONS MEET AASHTO AND ASTM SPECIFICATIONS.
2. PERFORATION OPEN AREA PER SQUARE FOOT OF PIPE IS BASED ON THE NOMINAL DIAMETER AND LENGTH OF PIPE.
3. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
4. ALL HOLES ⌀3/8".

TYPICAL PERFORATION DETAIL

SCALE: N.T.S.



PLAN

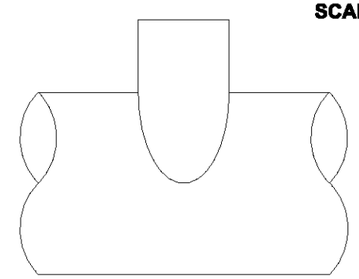


FRONT

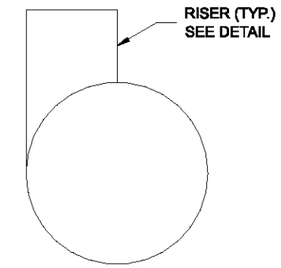
NOTE:
MANWAY DETAIL APPLICABLE FOR CMP SYSTEMS WITH DIAMETERS 48" AND LARGER. MANWAYS MAY BE REQUIRED ON SMALLER SYSTEMS DEPENDING ON ACTUAL SITE SPECIFIC CONDITIONS.

TYPICAL MANWAY DETAIL

SCALE: N.T.S.



ELEVATION

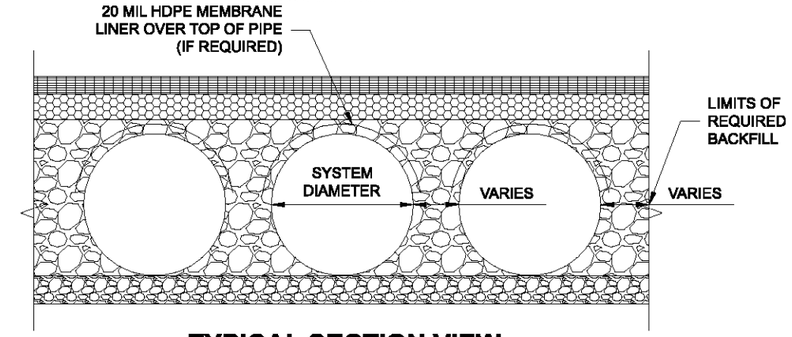


END

NOTE:
LADDERS ARE OPTIONAL AND ARE NOT REQUIRED FOR ALL SYSTEMS.

TYPICAL RISER DETAIL

SCALE: N.T.S.



TYPICAL SECTION VIEW

LINER OVER ROWS
SCALE: N.T.S.

NOTE: IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, AN HDPE MEMBRANE LINER IS RECOMMENDED WITH THE SYSTEM. THE IMPERMEABLE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

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SHEET NO.: D2		

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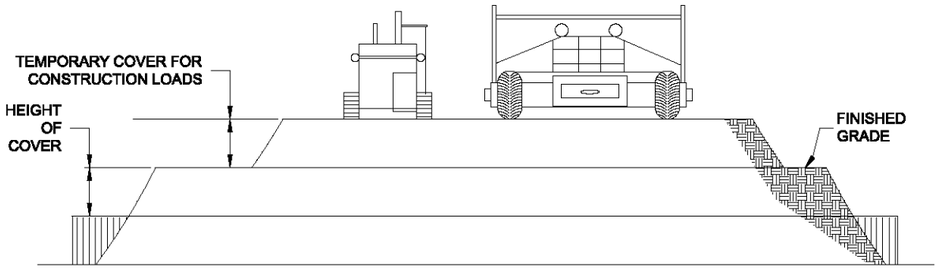


CONSTRUCTION LOADS

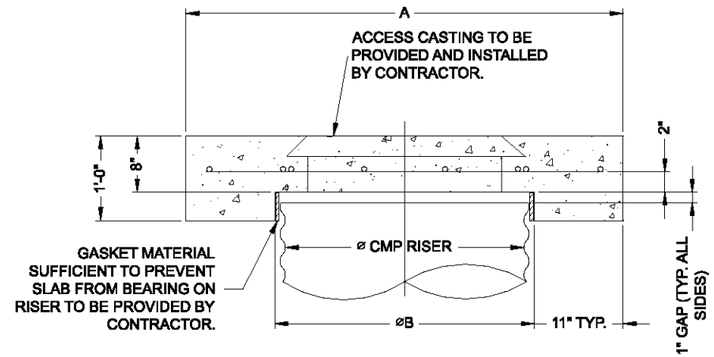
FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM

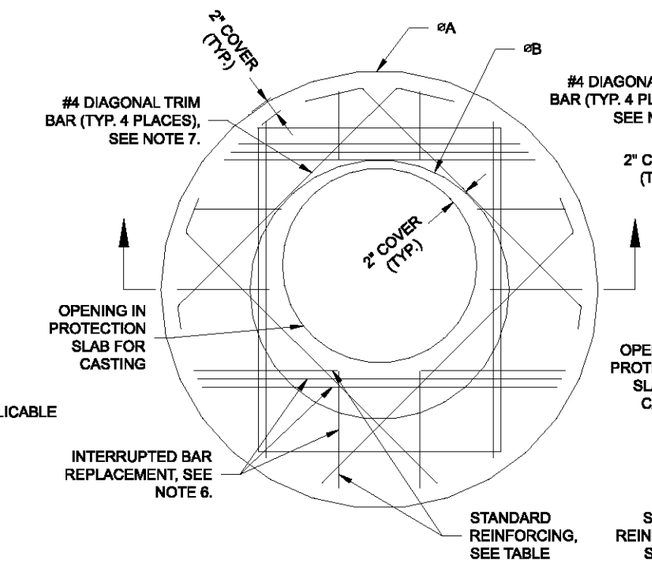
SCALE: N.T.S.



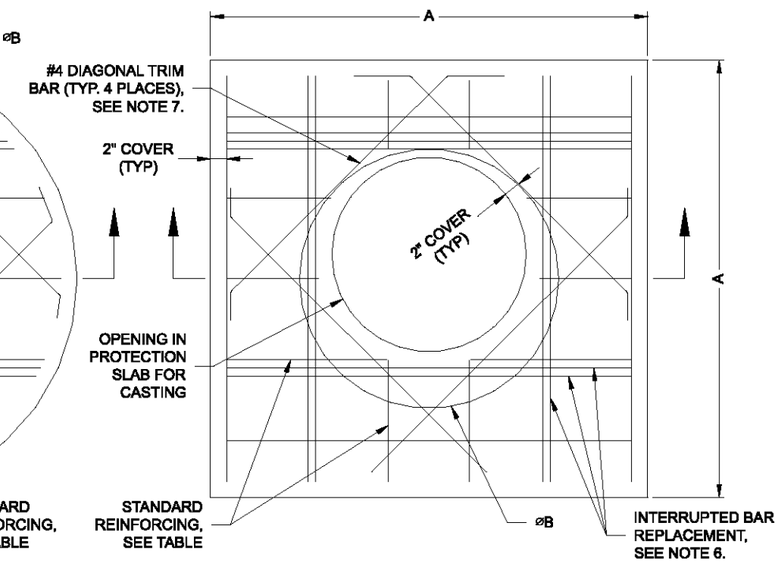
SECTION VIEW

REINFORCING TABLE				
ø CMP RISER	A	ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	ø 4' 4'X4'	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	ø 4'-6" 4'-6" X 4'-6"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	ø 5' 5' X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	ø 5'-6" 5'-6" X 5'-6"	44"	#5 @ 10" OCEW #5 @ 9" OCEW	1,720 1,210
48"	ø 6' 6' X 6'	50"	#5 @ 9" OCEW #5 @ 8" OCEW	1,600 1,100

** ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL
THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE GALVANIZED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.

THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-246 OR ASTM A-742.

THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-197 OR ASTM B-744.

CONSTRUCTION LOADS
CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSPA GUIDELINES.

PIPE
THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-760

GALVANIZED: AASHTO M-36 OR ASTM A-760

POLYMER COATED: AASHTO M-245 OR ASTM A-762

ALUMINUM: AASHTO M-196 OR ASTM B-745

HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH NCSP'S (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR ALUMINUM PIPE.

INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II DIVISION II OR ASTM A-798 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-788 (FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

NOTES:

1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 3,500 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

MANHOLE CAP DETAIL

SCALE: N.T.S.

NOTE:
THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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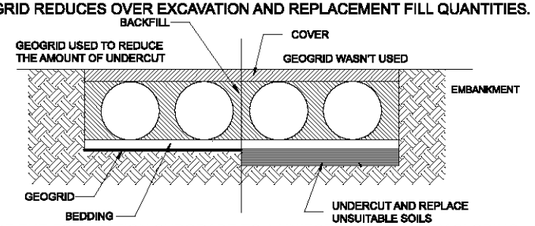
CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.

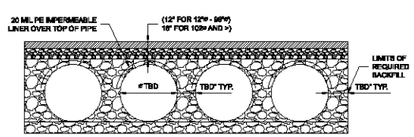


GRADE THE FOUNDATION SUBGRADE TO A UNIFORM OR SLIGHTLY SLOPING GRADE. IF THE SUBGRADE IS CLAY OR RELATIVELY NON-POROUS AND THE CONSTRUCTION SEQUENCE WILL LAST FOR AN EXTENDED PERIOD OF TIME, IT IS BEST TO SLOPE THE GRADE TO ONE END OF THE SYSTEM. THIS WILL ALLOW EXCESS WATER TO DRAIN QUICKLY, PREVENTING SATURATION OF THE SUBGRADE.

GEOMEMBRANE BARRIER

A SITE'S RESISTIVITY MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE.

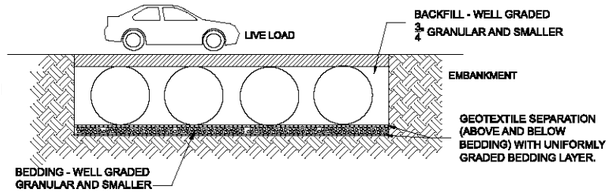
THE PROJECT'S ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGEMENT TO DETERMINE IF ANY ADDITIONAL PROTECTIVE MEASURES ARE REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.



IN-SITU TRENCH WALL

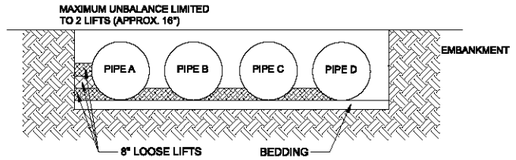
IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHEDS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



BACKFILL PLACEMENT

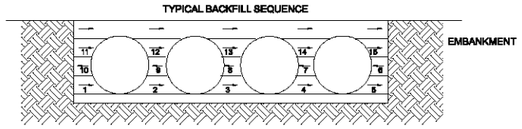
MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.



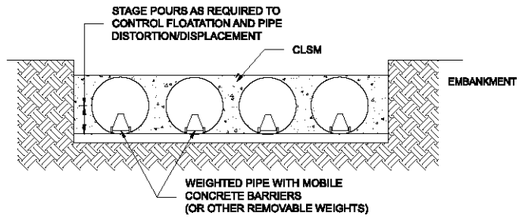
IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO 8- TO 10-FEET HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS. TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.

TYPICAL BACKFILL SEQUENCE



WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET-UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLSM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE CLSM, THE OPPOSING WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLSM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.

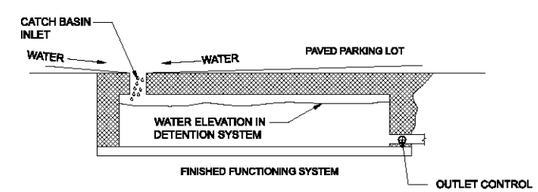


CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION; POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/ CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DE-ICING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.

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CONTECH® CMP DETENTION SYSTEMS

CONTECH DYODS DRAWING

DYO11992 Patriot - 3rd at Central
72" CMP System
Highland, CA
DETENTION SYSTEM

PROJECT No.: 7498	SEQ. No.: 11992	DATE: 2/3/2022
DESIGNED: DYO		DRAWN: DYO
CHECKED: DYO		APPROVED: DYO
SHEET NO.: D4		

CONTECH®
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Corrugated Metal Pipe Design Guide

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Durability Design Guide for Drainage Products

Proper design of culverts and storm sewers requires structural, hydraulic and durability considerations. While most designers are comfortable with structural and hydraulic design, the mechanics of evaluating abrasion, corrosion and water chemistry to perform a durability design are not commonly found in most civil engineering handbooks.

The durability and service life of a drainage pipe installation is directly related to the environmental conditions encountered at the site and the type of materials and coatings from which the culvert is fabricated. Two principle causes of early failure in drainage pipe materials are corrosion and abrasion.

Service life can be affected by the corrosive action of the backfill in contact with the outside of a drainage pipe or more commonly by the corrosive and abrasive action of the flow in the invert of the drainage pipe. The design life analysis should include a check for both the water side and soil side environments to determine which is more critical— or which governs service life.

The potential for metal loss in the invert of a drainage pipe due to abrasive flows is often overlooked by designers and its effects are often mistaken for corrosion. An estimate for potential abrasion is required at each pipe location in order to determine the appropriate material and gage.

This manual is intended to guide specifiers through the mechanics of selecting appropriate drainage products to meet service life requirements. The information contained in the following pages is a composite of several national guidelines.

Using the Design Guide

The choice of material, gage and product type can be extremely important to service life. The following steps describe the procedure for selecting the appropriate drainage product, material and gage to meet a specific service life requirement.

Design Sequence

1. Select pipe or structure based on hydraulic and clearance requirements. Use Tables 4 and 5 as reference for size limits and hydraulic properties of all drainage products.
2. Use Height of Cover tables for the chosen pipe or structure to determine the material gage required for the specific loading condition.
3. Use Table 1 to select the appropriate material for the site-specific environmental conditions. Whenever possible, existing installations of drainage structures along the same water course offer the most reliable estimate of long-term performance for specific environment conditions. In many cases, there will be more than one material that is appropriate for the project environmental conditions. Generally speaking, the metal material types increase in price as you move from top down on Table 1. Please contact your local CONTECH Sales Representative for pricing.
4. Use Table 2 to determine which abrasion level most accurately describes the typical storm event (2 year storm). The expected stream velocity and associated abrasion conditions should be based on a typical flow and not a 10 or 50-year design flood.
5. Use Table 3 to determine whether the structural gage for the selected material is sufficient for the design service life. If the structural gage is greater than or equal to the gage required for a particular abrasion condition and service life, use the structural gage. Conversely, if the structural gage is less than the gage required for a particular abrasion condition and service life, use the gage required by Table 3.

Note:

Both Contech round pipe and pipe-arch are available with either helical or annular corrugations. Contech HEL-COR® pipe (helical corrugations) is furnished with continuous lock seams and annular re-rolled ends. Contech riveted pipe is furnished with annular corrugations only. The height of cover tables in this guide are helical corrugations only. Consult your Contech representative for Height of Cover tables on riveted pipe.

Table 1 — Recommended Environments

Material Type	Soil* and Water pH 3	4	5	6	7	8	9	10	11	12	Resistivity (ohm-cm) Minimum	Maximum
Galvanized Steel*											2000	8000
Aluminized Steel Type 2											1500	N/A
Polymer Coated											250	N/A
Aluminum Alloy											500	N/A

**Appropriate pH range for Galvanized Steel is 6.0 to 10*

Table 2 — FHWA Abrasion Guidelines

Abrasion Level	Abrasion Condition	Bed Load	Flow Velocity (fps)
1	Non- Abrasive	None	Minimal
2	Low Abrasion	Minor	< 5
3	Moderate Abrasion	Moderate	5 - 15
4	Severe Abrasion	Heavy	> 15

"Interim Direct Guidelines on Drainage Pipe Alternative Selection." FHWA, 2005.

Table 3 — Drainage Product Usage Guide[1]

Application	Culverts, Storm Drain, Cross Drain, Median Drain, Side Drain											
Roadway Classification	Rural	Minor	Major	Urban	Rural	Minor	Major	Urban	Rural	Minor	Major	Urban
Design Service Life	25	50	75	100	25	50	75	100	25	50	75	100
Abrasion Level	Abrasion Level 1 & 2				Abrasion Level 3				Abrasion Level 4			
CMP (1/2" & 1" deep corrugations, ULTRA FLO [3] & Smooth Cor [2,3])	Minimum gage required to meet design service life, assuming that structural design has been met.											
Galvanized (2 oz.)	*16*	*12*	*10*	*8[4]*	*14*	*10*	8	N/A	*14[5]*	*10[5]*	8[5]	N/A
Galvanized and Asphalt Coated	16	14	10	8	14	12	8	N/A	14[5]	12[5]	8[5]	N/A
Galv., Asphalt Coated and Paved Invert	16	16	14	10	16	14	12	8	14	12	10	N/A
Aluminized Type 2	16	16	16	14	14	14	14	12	14[6]	14[6]	14[6]	12[6]
Polymer Coated	16	16	16[8]	16[9]	16	16	16[8]	16[9]	14[7]	14[7]	14[7,8]	14[7,9]
Aluminum Alloy	16	16	16	16	14	14	14	14	14[5]	14[5]	14[5]	14[5]

1. *Based on Table 1 - Recommended Environments.*
2. *SmoothCor™ Steel Pipe combines a corrugated steel exterior shell with a hydraulically smooth interior liner.*
3. *Service life estimates for ULTRA FLO® and SmoothCor Pipe assume a storm sewer application. Storm sewers rarely achieve abrasion levels 3 or 4. For applications other than storm sewers or abrasion conditions above Abrasion Level 2, please contact your Contech Sales Representative for gage and coating recommendations.*
4. *Design service life for 8 gage galvanized is 97 years.*
5. *Invert protection to consist of velocity reduction structures.*
6. *Asphalt coated and paved invert or velocity reduction structures are needed.*
7. *Requires a field applied concrete paved invert with minimum thickness 1" above corrugation crests.*
8. *75 year service life for polymer coated is based on a pH range of 4-9 and resistivity greater than 750 ohm-cm.*
9. *100 year service life for polymer coated is based on a pH range of 5-9 and resistivity greater than 1500 ohm-cm.*

	Drainage Product	Common Uses	Size Limits* Minimum	Size Limits* Maximum	Manning's "n" Value
Round Pipe	Corrugated Steel (1/2" deep corrugation)	Culverts, small bridges, storm water detention/ retention systems, conduits, tunnels, storm sewers.	12"	84"	0.011 - 0.021
	Corrugated Steel with Paved Invert (1/2" deep corrugation)		12"	84"	0.014 - 0.020
	Corrugated Steel (1" deep corrugation)		54"	144"	0.022 - 0.027
	Corrugated Steel with Paved Invert (1" deep corrugation)		54"	144"	0.019 - 0.023
	Corrugated Aluminum (1/2" deep corrugation)		12"	72"	0.011 - 0.021
	Corrugated Aluminum (1" deep corrugation)		30"	120"	0.023 - 0.027
	ULTRA FLO® Steel	Storm sewers, culverts, storm water detention/ retention systems.	18"	102"	0.012
	ULTRA FLO Aluminum		18"	84"	0.012
	SmoothCor™ Steel (1/2" deep corrugation)		18"	66"	0.012
	SmoothCor Steel (1" deep corrugation)		48"	126"	0.012
Pipe-Arch	Corrugated Steel (1/2" deep corrugation)	Culverts, small bridges, storm water detention/ retention systems, conduits, tunnels, storm sewers.	17" x 13"	83" x 57"	0.011 - 0.021
	Corrugated Steel with Paved Invert (1/2" deep corrugation)		17" x 13"	83" x 57"	0.014 - 0.019
	Corrugated Steel (1" deep corrugation)		53" x 41"	142" x 91"	0.023 - 0.027
	Corrugated Steel with Paved Invert (1" deep corrugation)		53" x 41"	142" x 91"	0.019 - 0.022
	Corrugated Aluminum (1/2" deep corrugation)		17" x 13"	71" x 47"	0.011 - 0.021
	Corrugated Aluminum (1" deep corrugation)		60" x 46"	112" x 75"	0.023 - 0.027
	ULTRA FLO Steel	Storm sewers, culverts, storm water detention/ retention systems.	20" x 16"	66" x 51"	0.012
	ULTRA FLO Aluminum		20" x 16"	66" x 51"	0.012
	SmoothCor Steel (1/2" deep corrugation)		21" x 15"	77" x 52"	0.012
	SmoothCor Steel (1" deep corrugation)		53" x 41"	137" x 87"	0.012

* *For sizes outside of these limits, please contact your Contech representative.*

Table 5 — Corrugated Steel Pipe—Values of Coefficient of Roughness (n)

	All Diameters	1-1/2" x 1/4"		Helical* Corrugation Helical—2-2/3" x 1/2"							
2-2/3" x 1/2"	**Annular**	**8 in.**	**10 in.**	**12 in.**	**15 in.**	**18 in.**	**24 in.**	**36 in.**	**48 in.**	**60 in. +**	
Unpaved	0.024	0.012	0.014	0.011	0.012	0.013	0.015	0.018	0.020	0.021	
PAVED-INVERT	0.021						0.014	0.017	0.020	0.019	
SmoothCor	N/A					0.012	0.012	0.012	0.012	0.012	
				Helical*—3" x 1"							
3" x 1"	**Annular**			**36 in.**	**42 in.**	**48 in.**	**54 in.**	**60 in.**	**66 in.**	**72 in.**	**78 in. +**
Unpaved	0.027			0.022	0.022	0.023	0.023	0.024	0.025	0.026	0.027
PAVED-INVERT	0.023			0.019	0.019	0.020	0.020	0.021	0.022	0.022	0.023
SmoothCor	N/A					0.012	0.012	0.012	0.012	0.012	0.012
				Helical*—5" x 1"							
5" x 1"	**Annular**					**48 in.**	**54 in.**	**60 in.**	**66 in.**	**72 in.**	**78 in. +**
Unpaved	N/A					0.022	0.022	0.023	0.024	0.024	0.025
PAVED-INVERT	N/A					0.019	0.019	0.020	0.021	0.021	0.022
ULTRA FLO	N/A			**3/4" x 3/4" x 7-1/2"** All diameters n = 0.012							

* *Tests on helically corrugated pipe demonstrate a lower coefficient of roughness than for annularly corrugated steel pipe. Pipe-arches approximately have the same roughness characteristics as their equivalent round pipes.*

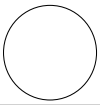
Table 6 - AASHTO Reference Specifications					
	Material Type	**Material**	**Pipe**	**Design***	**Installation***
Pipe & Pipe-Arch	**CMP (1/2" or 1" deep corrugations)**				
	Galvanized (2 oz.)	M218	M36	Section 12	Section 26
	Asphalt Coated	M190	M36	Section 12	Section 26
	Asphalt Coated and Paved Invert	M190	M36	Section 12	Section 26
	Aluminized Type 2	M274	M36	Section 12	Section 26
	Polymer Coated	M246	M36 & M245	Section 12	Section 26
	Aluminum Alloy	M197	M196	Section 12	Section 26
	ULTRA FLO (3/4" x 3/4" x 7-1/2" corrugation)				
	Galvanized (2 oz.)	M218	M36	Section 12	Section 26
	Aluminized Type 2	M274	M36	Section 12	Section 26
	Polymer Coated	M246	M36 & M245	Section 12	Section 26
	Aluminum Alloy	M197	M196	Section 12	Section 26
	SmoothCor				
	Polymer Coated	M246	M36 & M245	Section 12	Section 26

* *AASHTO LRFD Bridge Design Specification and AASHTO Standard Specification for Highway Bridges*

Corrugated Steel Pipe

Heights of Cover

2-2/3" x 1/2" Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Diameter or Span, Inches	Minimum Cover, Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.052	0.064	0.079	0.109	0.138	0.168
6[10]	12	388	486				
8[10]		291	365				
10[10]		233	392				
12		197	248	310			
15		158	198	248			
18		131	165	206			
21		113	141	177	248		
24		98	124	155	217		
30			99	124	173		
36			83	103	145	186	
42			71	88	124	159	195
48			62	77	108	139	171
54				67	94	122	150
60					80	104	128
66					68	88	109
72						75	93
78							79
84	12						66

H 20 and H 25 Live Loads, Pipe-Arch

Size: Round Equivalent, Inches	Span x Rise, Inches	Minimum Structural Thickness, Inches	Minimum Cover, Inches	Maximum[7] Cover, Feet 2 Tons/Ft.² Corner Bearing Pressure
15	17 x 13	0.064	12	16
18	21 x 15	0.064		15
21	24 x 18	0.064		
24	28 x 20	0.064		
30	35x 24	0.064		
36	42 x 29	0.064		
42	49 x 33	0.064*		
48	57 x 38	0.064*		
54	64 x 43	0.079*		
60	71 x 47	0.109*		
66	77 x 52	0.109*		
72	83 x 57	0.138*	12	15

E 80 Live Loads

Diameter or Span, Inches	Minimum Cover, Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.052	0.064	0.079	0.109	0.138	0.168
12	12	197	248	310			
15		158	198	248			
18		131	165	206			
21		113	141	177	248		
24		98	124	155	217		
30			99	124	173		
36			83	103	145	186	
42			71	88	124	159	195
48	12		62	77	108	139	171
54	18			67	94	122	150
60					80	104	128
66					68	88	109
72	18					75	93
78	24						79
84	24						66

E 80 Live Loads, Pipe-Arch

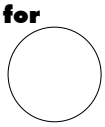
Size: Round Equivalent, Inches	Span x Rise, Inches	Minimum Structural Thickness, Inches	Minimum Cover, Inches	Maximum[8] Cover, Feet 3 Tons/Ft.² Corner Bearing Pressure
15	17 x 13	0.079	24	22
18	21 x 15	0.079		
21	24 x 18	0.109		
24	28 x 20	0.109		
30	35 x 24	0.138		
36	42 x 29	0.138		
42	49 x 33	0.138*		
48	57 x 38	0.138*		
54	64 x 43	0.138*		
60	71 x 47	0.138*	24	22

* *These values are based on the AISI Flexibility Factor limit (0.0433 x 1.5) for pipe-arch.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using a load factor of K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
4. E 80 minimum cover is measured from top of pipe to bottom of tie.
5. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
6. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
7. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
8. 0.052" is 18 gage.
   0.064" is 16 gage.
   0.079" is 14 gage.
   0.109" is 12 gage.
   0.138" is 10 gage.
   0.168" is 8 gage.
9. For construction loads, see Page 15.
10. 1-1/2" x 1/4" corrugation. H20, H25 and E80 loading.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-2/3" x 1/2" or 3" x 1" corrugations; maximum exterior shell gage is 12.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

5″ x 1″ or 3″ x 1″ Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Diameter or Span, Inches	Minimum Cover Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.064	0.079	0.109	0.138	0.168
54	12	56	70	98	127	155
60		50	63	88	114	139
66		46	57	80	103	127
72		42	52	74	95	116
78		39	48	68	87	107
84		36	45	63	81	99
90		33	42	59	76	93
96	12	31	39	55	71	87
102	18	29	37	52	67	82
108			35	49	63	77
114			32	45	58	72
120			30	42	54	66
126				39	50	61
132				36	46	58
138				33	43	53
144	18				39	49

Maximum cover heights shown are for 5″ x 1″.

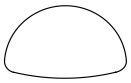
To obtain maximum cover for 3″ x 1″, increase these values by 12%

E 80 Live Loads

Diameter or Span, Inches	Minimum Cover Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.064	0.079	0.109	0.138	0.168
54	18	56	70	98	127	155
60		50	63	88	114	139
66		46	57	80	103	127
72	18	42	52	74	95	116
78	24	39	48	68	87	107
84		36	45	63	81	99
90		33[1]	42	59	76	93
96	24	31[1]	39	55	71	87
102	30	29[1]	37	52	67	82
108			35	49	63	77
114			32[1]	45	58	72
120	30		30[1]	42	54	66
126	36			39	50	61
132				36	46	58
138				33[1]	43	53
144	36				39	49

Maximum cover heights shown are for 5″ x 1″.
To obtain maximum cover for 3″ x 1″, increase these values by 12%.
[1] These diameters in these gages require additional minimum cover.

5″ x 1″ Pipe-Arch Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches[3]	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[7] Cover, Feet 2 Tons/Ft.² Corner Bearing Pressure
72	81 x 59	0.109	18	21
78	87 x 63	0.109	18	20
84	95 x 67	0.109	18	20
90	103 x 71	0.109	18	20
96	112 x 75	0.109	21	20
102	117 x 79	0.109	21	19
108	128 x 83	0.109	24	19
114	137 x 87	0.109	24	19
120	142 x 91	0.138	24	19

Larger sizes are available in some areas of the United States. Check with your local Contech representative . Some minimum heights-of-cover for pipe-arches have been increased to take into account allowable "plus" tolerances on the manufactured rise.

E 80 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches[3]	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[8] Cover, Feet 2 Tons/Ft.² Cover Bearing Pressure
72	81 x 59	0.109	30	21
78	87 x 63	0.109	30	18
84	95 x 67	0.109	30	18
90	103 x 71	0.109	36	18
96	112 x 75	0.109	36	18
102	117 x 79	0.109	36	17
108	128 x 83	0.109	42	17
114	137 x 87	0.109	42	17
120	142 x 91	0.138	42	17

* *Some 3″ x 1″ and 5″ x 1″ minimum gages shown for pipe-arch are due to manufacturing limitations.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using a load factor of K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The span and rise shown in these tables are nominal. Typically the actual rise that forms is greater than the specified nominal. This actual rise is within the tolerances as allowed by the AASHTO & ASTM specifications. The minimum covers shown are more conservative than required by the AASHTO and ASTM specifications to account for this anticipated increase in rise. Less cover height may be tolerated depending upon actual rise of supplied pipe arch.
4. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
5. E 80 minimum cover is measured from top of pipe to bottom of tie.
6. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
7. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
8. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
9. 0.052″ is 18 gage.0.064″ is 16 gage.
   0.079″ is 14 gage.0.109″ is 12 gage.
   0.138″ is 10 gage.0.168″ is 8 gage.
10. For construction loads, see Page 15.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-$^{2}/_{3}$″ x $^{1}/_{2}$″ or 3″x1″ corrugations; maximum exterior shell gage is 12.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

3" x 1" Pipe-Arch Height of Cover Limits for Corrugated Steel Pipe-Arch

H 20 and H 25 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[7] Cover, Feet: 2 Tons/Ft.² Corner Bearing Pressure
48	53 x 41	0.079	12	25
54	60 x 46	0.079	15	25
60	66 x 51	0.079	15	25
66	73 x 55	0.079	18	24
72	81 x 59	0.079	18	21
78	87 x 63	0.079	18	20
84	95 x 67	0.079	18	20
90	103 x 71	0.079	18	20
96	112 x 75	0.079	21	20
102	117 x 79	0.109	21	19
108	128 x 83	0.109	24	19
114	137 x 87	0.109	24	19
120	142 x 91	0.138	24	19

Larger sizes are available in some areas of the United States. Check with your local Contech Sales Representative.

Some minimum heights-of-cover for pipe-arches have been increased to take into account allowable "plus" tolerances on the manufactured rise.

E 80 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[8] Cover, Feet: 2 Tons/Ft.² Corner Bearing Pressure
48	53 x 41	0.079	24	25
54	60 x 46	0.079	24	25
60	66 x 51	0.079	24	25
66	73 x 55	0.079	30	24
72	81 x 59	0.079	30	21
78	87 x 63	0.079	30	18
84	95 x 67	0.079	30	18
90	103 x 71	0.079	36	18
96	112 x 75	0.079	36	18
102	117 x 79	0.109	36	17
108	128 x 83	0.109	42	17
114	137 x 87	0.109	42	17
120	142 x 91	0.138	42	17

* *Some 3" x 1" and 5" x 1" minimum gages shown for pipe-arch are due to manufacturing limitations.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The span and rise shown in these tables are nominal. Typically the actual rise that forms is greater than the specified nominal. This actual rise is within the tolerances as allowed by the AASHTO & ASTM specifications. The minimum covers shown are more conservative than required by the AASHTO and ASTM specifications to account for this anticipated increase in rise. Less cover height may be tolerated depending upon actual rise of supplied pipe arch.
4. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
5. E 80 minimum cover is measured from top of pipe to bottom of tie.
6. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
7. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
8. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
9. 0.052" is 18 gage.
   0.064" is 16 gage.
   0.079" is 14 gage.
   0.109" is 12 gage.
   0.138" is 10 gage.
   0.168" is 8 gage.
10. For construction loads, see Page 15.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-$^{2}/_{3}$" x $^{1}/_{2}$" or 3" x 1" corrugations; maximum exterior shell gage is 15.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

Approximate Weight (Pounds/Foot) Contech Corrugated Steel Pipe

(Estimated Average Weights—Not for Specification Use)

1-1/2″ x 1/4″ Corrugation

Inside Diameter, in.	Specified Thickness, in.	Galvanized & ALUMINIZED	Full Coated
6	0.052	4	5
	0.064	5	6
8	0.052	5	6
	0.064	6	7
10	0.052	6	7
	0.064	7	8

Steel Thicknesses by Gage

Gage	18	16	14	12	10	8
Thickness	.052	.064	.079	.109	.138	.168

2-2/3″ x 1/2″ Corrugation

Inside Diameter, in.	Specified Thickness	Galvanized & ALUMINIZED	Full Coated	Coated & PAVED-INVERT	SmoothCor
12	0.052	8	10	13	
	0.064	10	12	15	
	0.079	12	14	17	
15	0.052	10	13	16	
	0.064	12	15	18	
	0.079	15	18	21	
18	0.052	12	16	19	
	0.064	15	19	22	25
	0.079	18	22	25	28
21	0.052	14	18	23	
	0.064	17	21	26	29
	0.079	21	25	30	33
	0.109	29	33	33	41
24	0.052	15	20	26	
	0.064	19	24	30	30
	0.079	24	29	35	38
	0.109	33	38	44	47
30	0.064	24	30	36	42
	0.079	30	36	42	48
	0.109	41	47	53	59
36	0.064	29	36	44	51
	0.079	36	43	51	58
	0.109	49	56	64	71
	0.138	62	69	77	
42	0.064	34	42	51	60
	0.079	42	50	59	68
	0.109	57	65	74	82
	0.138	72	80	89	
	0.168	88	96	105	
48	0.064	38	48	57	67
	0.079	48	58	67	77
	0.109	65	75	84	94
	0.138	82	92	101	
	0.168	100	110	119	
54	0.079	54	65	76	87
	0.109	73	84	95	106
	0.138	92	103	114	
	0.168	112	123	134	
60	0.109	81	92	106	117
	0.138	103	114	128	
	0.168	124	135	149	
66	0.109	89	101	117	129
	0.138	113	125	141	
	0.168	137	149	165	
72	0.138	123	137	154	(2)
	0.168	149	163	180	
78	0.168	161	177	194	(2)
84	0.168	173	190	208	(2)

3″ x 1″ or 5″ x 1″ Corrugation

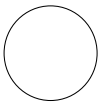
Inside Diameter, in.	Specified Thickness	Galvanized & ALUMINIZED	Full Coated	Coated & PAVED-INVERT	SmoothCor
54	0.064	50	66	84	84
	0.079	61	77	95	95
	0.109	83	100	118	118
	0.138	106	123	140	
	0.168	129	146	163	
60	0.064	55	73	93	93
	0.079	67	86	105	105
	0.109	92	110	130	130
	0.138	118	136	156	
	0.168	143	161	181	
66	0.064	60	80	102	102
	0.079	74	94	116	116
	0.109	101	121	143	145
	0.138	129	149	171	
	0.168	157	177	199	
72	0.064	66	88	111	112
	0.079	81	102	126	127
	0.109	110	132	156	157
	0.138	140	162	186	
	0.168	171	193	217	
78	0.064	71	95	121	120
	0.079	87	111	137	136
	0.109	119	143	169	168
	0.138	152	176	202	
	0.168	185	209	235	
84	0.064	77	102	130	130
	0.079	94	119	147	147
	0.109	128	154	182	181
	0.138	164	189	217	
	0.168	199	224	253	
90	0.064	82	109	140	139
	0.079	100	127	158	157
	0.109	137	164	195	194
	0.138	175	202	233	
	0.168	213	240	271	
96	0.064	87	116	149	148
	0.079	107	136	169	168
	0.109	147	176	209	208
	0.138	188	217	250	
	0.168	228	257	290	
102	0.064	93	124	158	158
	0.079	114	145	179	179
	0.109	155	186	220	222
	0.138	198	229	263	
	0.168	241	272	306	
108	0.079	120	153	188	189
	0.109	165	198	233	235
	0.138	211	244	279	
	0.168	256	289	324	
114	0.079	127	162	199	200
	0.109	174	209	246	248
	0.138	222	257	294	
	0.168	271	306	343	
120	0.079	134	171	210	211
	0.109	183	220	259	260
	0.138	234	271	310	
	0.168	284	321	360	
126	0.109	195	233	274	276
	0.138	247	285	326	
	0.168	299	338	378	
132	0.109	204	244	287	289
	0.138	259	299	342	
	0.168	314	354	397	
138	0.109	213	255	300	300
	0.138	270	312	357	
	0.168	328	370	415	
144	0.138	282	326	373	
	0.168	344	388	435	(2)

1. *Weights for polymer coated pipe are 1% to 4% higher, varying by gage.*
2. *Please contact your Contech Sales Representative.*
3. *Weights listed in the 3″ x 1″ or 5″ x 1″ table are for 3″ x 1″ pipe. Weights for 5″ x 1″ are approximately 12% less than those used in this table, for metallic coated pipe.*

Corrugated Aluminum Pipe

Heights of Cover

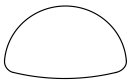
2-2/3" X 1/2" Height of Cover Limits for Corrugated Aluminum Pipe



HL 93 Live Load

Diameter or Span (In.)	Minimum Cover (In.)	Maximum Cover, (Ft.)[2] Equiv. Standard Gage 18	16	14	12	10	8[5]
6 [4]	12	197	247				
8 [4]		147	185				
10 [4]		119	148				
12			125	157			
15			100	125			
18			83	104			
21			71	89			
24			62	78	109		
27				69	97		
30				62	87		
36				51	73	94	
42					62	80	
48	12				54	70	85
54	15				48	62	76
60	15					52	64
66	18						52
72	18						43

2 2/3" x 1/2" Height of Cover Limits for Corrugated Aluminum Pipe-Arch



HL 93 Live Load

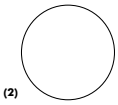
Round Pipe Dia. (Inches)	Size, (In.) Span x Rise	Minimum Gage	Minimum[3] Cover (Inches)	Maximum Cover, (Ft.) Aluminum Pipe-Arch[2] 2 Tons/Ft.² for Corner Bearing Pressures
15	17x13	16	12	13
18	21x15	16	12	12
21	24x18	16	12	12
24	28x20	14	12	12
30	35x24	14	12	12
36	42x29	12	12	12
42	49x33	12	15	12
48	57x38	10	15	12
54	64x43	10	18	12
60	71x47	8[5]	18	12

Notes:

1. *Height-of-cover is measured to top of rigid pavement or to bottom of flexible pavement.*
2. *Maximum cover meets AASHTO LRFD design criteria.*
3. *Minimum cover meets AASHTO and ASTM B 790 design criteria.*
4. *1 1/2" x 1/4" corrugation.*
5. *8-gage pipe has limited availability.*
6. *For construction loads, see page 15.*

Heights of Cover

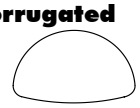
3" x 1" Height of Cover Limits for Corrugated Aluminum Pipe



HL 93 Live Load

Diameter or Span (In.)	Minimum[3] Cover (In.)	Maximum Cover, (Ft.) [2] Equiv. Standard Gage 16	14	12	10	8[6]
30	12	57	72	101	135	159
36		47	60	84	112	132
42		40	51	72	96	113
48	12	35	44	62	84	99
54	15	31	39	55	74	88
60	15	28	35	50	67	79
66	18	25	32	45	61	72
72	18	23	29	41	56	66
78	21		27	38	51	61
84	21			35	48	56
90	24			33	44	52
96	24			31	41	49
102	24				39	46
108	24				37	43
114	24					39
120	24					36

3" x 1" Height of Cover Limits for Corrugated Aluminum Pipe-Arch



HL 93 Live Load

Round Pipe Dia. (Inches)	Size, (In.) Span x Rise	Minimum Gage	Minimum[3] Cover (Inches)	Maximum Cover, (Ft.) Aluminum Pipe-Arch[2] 2 Tons/Ft.² for Corner Bearing Pressures
54	60x46	14	15	20
60	66x51	14	18	20
66	73x55	14	21	20
72	81x59	12	21	16
78[4]	87x63	12	24	16
84[4]	95x67	12	24	16
90[4]	103x71	10	24	16
96[4]	112x75	8[5]	24	16

Notes:

1. *Height-of-cover is measured to top of rigid pavement or to bottom of flexible pavement.*
2. *Maximum cover meets AASHTO LRFD design criteria.*
3. *Minimum cover meets ASTM B 790 design criteria.*
4. *Limited availability on these sizes.*
5. *8-gage pipe has limited availability.*
6. *For construction loads, see page 15.*

Approximate Weight/Foot
Contech Corrugated Aluminum Pipe

(Estimated Average Weights—Not for Specification Use)

2 2/3″ x 1/2″ Corrugation Aluminum Pipe						
Diameter or Span (Inches)	Weight (Lb./Lineal Ft.) Equiv. Standard Gage					
	(.048) 18	(.060) 16	(.075) 14	(.105) 12	(.135) 10	(.164) 8[3]
6 [2]	1.3	1.6				
8 [2]	1.7	2.1				
10 [2]	2.1	2.6				
12		3.2	4.0			
15		4.0	4.9			
18		4.8	5.9			
21		5.6	6.9			
24		6.3	7.9	10.8		
27			8.8	12.2		
30			9.8	13.5		
36			11.8	16.3	20.7	
42				19.0	24.2	
48				21.7	27.6	33.5
54				24.4	31.1	37.7
60					34.6	41.9
66						46.0
72						50.1

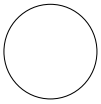
3″ x 1″ Corrugation Aluminum Pipe					
Diameter or Span (Inches)	Weight (Lb./Lineal Ft.) Equiv. Standard Gage				
	(.060) 16	(.075) 14	(.105) 12	(.135) 10	(.164) 8[3]
30	9.3	11.5	15.8	20.2	
36	11.1	13.7	18.9	24.1	
42	12.9	16.0	22.0	28.0	
48	14.7	18.2	25.1	32.0	38.8
54	16.5	20.5	28.2	35.9	43.6
60	18.3	22.7	31.3	40.0	48.3
66	20.2	24.9	34.3	43.7	53.0
72	22.0	27.1	37.4	47.6	57.8
78		29.3	40.4	51.5	62.5
84			43.5	55.4	67.2
90			46.6	59.3	71.9
96			49.6	63.2	76.7
102				66.6	80.8
108				71.0	86.1
114					90.9
120					95.6

Notes:

1. *Helical lockseam pipe only. Annular riveted pipe weights will be higher.*
2. *1 ½″ x ¼″ Corrugation.*
3. *8-gage pipe has limited availability.*

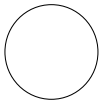
ULTRA FLO®

Heights of Cover



Galvanized, ALUMINIZED STEEL Type 2 or Polymer Coated Steel** ULTRA FLO H 20 and H 25 Live Load

Diameter (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	1.0/108	1.0/151		
21	1.0/93	1.0/130	1.0/216	
24	1.0/81	1.0/113	1.0/189	
30	1.0/65	1.0/91	1.0/151	
36	1.0/54	1.0/75	1.0/126	
42	1.0/46	1.0/65	1.0/108	
48	1.0/40	1.0/56	1.0/94	1.0/137
54	1.25/36	1.25/50	1.0/84	1.0/122
60	1.25*/32*	1.25/45	1.0/75	1.0/109
66		1.5/41	1.25/68	1.25/99
72		1.5*/37*	1.25/63	1.25/91
78		1.75*/34*	1.5/58	1.5/84
84			1.75/54	1.75/78
90			2.0*/50*	2.0/73
96			2.0*/47*	2.0/68
102			2.5*/43*	2.5/61
108				2.5*/54*
114				2.5*/49*
120				2.5*/43*

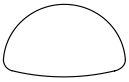


Galvanized, ALUMINIZED STEEL Type 2 or Polymer Coated Steel** ULTRA FLO E 80 Live Load

Diameter (Inches)	(0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	1.0 / 93	1.0 / 130		
21	1.0 / 79	1.0 / 111	1.0 / 186	
24	1.0 / 69	1.0 / 97	1.0 / 162	
30	1.0 / 55	1.0 / 78	1.0 / 130	
36	1.5 / 46	1.25 / 65	1.0 / 108	
42	1.5 / 39	1.5 / 55	1.25 / 93	
48	2.0 / 34	1.75 / 48	1.5 / 81	1.5 / 118
54	3.0* / 28*	2.0 / 43	1.5 / 72	1.5 / 104
60		2.0 / 39	1.75 / 65	1.75 / 94
66		2.5* / 35*	2.0 / 58	2.0 / 85
72			2.0 / 49	2.0 / 78
78			2.5 / 42	2.5 / 72
84			2.75* / 35*	2.5 / 67
90				2.5 / 62
96				2.5* / 58*
102				3.0* / 52*

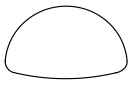
Notes:

1. The tables for Steel H 20 and H 25 loading are based on the NCSPA CSP Design Manual, 2008 and were calculated using a load factor of K=0.86. The tables for Steel E 80 loading are based on the AREMA Manual. The tables for Aluminum HL 93 loading are based on AASHTO LRFD Design Criteria.
2. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
3. E 80 minimum cover is measured from top of pipe to bottom of tie.
4. H 20, H 25 and HL 93 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
5. The H 20, H 25 and HL 93 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
6. The E 80 pipe-arch tables minimum and maximum covers are based on 3 tons per square foot corner bearing pressures shown.
7. Larger size pipe-arches may be available on special order.
8. M.L. (Heavier gage is required to prevent crimping at the haunches.)
9. For construction loads, see Page 15.
10. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.



Galvanized, ALUMINIZED STEEL Type 2 or Polymer Coated Steel** ULTRA FLO Pipe-Arch H 20 and H 25 Live Load

Equiv. Pipe Dia. (Inches)	Span (Inches)	Rise (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12
18	20	16	1.0/16		
21	23	19	1.0/15		
24	27	21	1.0/13		
30	33	26	1.0/13	1.0/13	
36	40	31	1.0/13	1.0/13	
42	46	36	M.L.[8]	M.L.[8]	1.0/13
48	53	41	M.L.[8]	M.L.[8]	1.25/13
54	60	46	M.L.[8]	M.L.[8]	1.25/13
60	66	51	M.L.[8]	M.L.[8]	1.25/13



Galvanized, ALUMINIZED STEEL Type 2 or Polymer Coated Steel** ULTRA FLO Pipe-Arch E 80 Live Load

Span x Rise (Inches)	Round Equivalent	Minimum Cover (Inches)	Minimum Gage	Max Cover (Feet)
20x16	18	24	16	22
23x19	21	24	16	21
27x21	24	24	16	18
33x26	30	24	16	18
40x31	36	24	16	17
46x36	42	24	12	18
53x41	48	24	12	18
60x46	54	24	12	18
66x51	60	24	12	18

ULTRA FLO can be manufactured from polymer coated steel for added durability.

11. All heights of cover are based on trench conditions. If embankment conditions exist, there may be restriction on gages for the large diameters. Your Contech Sales Representative can provide further guidance for a project in embankment conditions.
12. All steel ULTRA FLO is installed in accordance with ASTM A798 "Installing Factory-Made Corrugated Steel Pipe for Sewers and Other Applications."

* *These sizes and gage combinations are installed in accordance with ASTM A796 paragraphs 18.2.3 and ASTM A798. For aluminum ULTRA FLO refer to ASTM B790 and B788.*

** *Contact your local Contech representative for more specific information on Polymer Coated ULTRA FLO for gages 12 and 10.*

Heights of Cover

Aluminum ULTRA FLO HL 93 Live Load

Diameter (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	1.0/43	1.0/61		
21	1.0/38	1.0/52	1.0/84	
24	1.0/33	1.0/45	1.0/73	
30	1.0/26	1.25/36	1.25/58	
36	1.5*/21*	1.50/30	1.5/49	1.5/69
42		1.75*/25*	1.75/41	1.75/59
48			2.0/36	2.0/51
54			2.0/32	2.0/46
60			2.0*/29*	2.0/41
66				2.0/37
72				2.5*/34*

See previous page for height of cover notes.

Aluminum ULTRA FLO Pipe-Arch HL 93 Live Load

Equiv. Pipe Dia. (Inches)	Span (Inches)	Rise (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	20	16	1.0/16			
21	23	19	1.0/15			
24	27	21	1.25/13	1.25/13		
30	33	26	1.5/13	1.5/13	1.5/13	
36	40	31		1.75/13	1.75/13	
42	46	36			2.0/13	2.0/13
48	53	41			2.0/13	2.0/13
54	60	46			2.0*/13*	2.0/13
60	66	51				2.0/13

Approximate Weight/Foot Contech ULTRA FLO Pipe

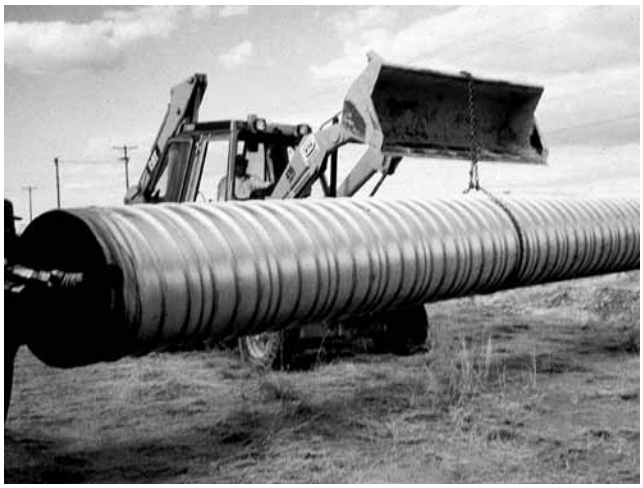
Handling Weight for **ALUMINIZED STEEL Type 2** or **Galvanized Steel** ULTRA FLO

Diameter (Inches)	Weight (Pounds/Lineal Foot) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	15	18		
21	17	21	29	
24	19	24	36	
30	24	30	42	
36	29	36	50	
42	33	42	58	
48	38	48	66	80
54	45	54	75	90
60	48	60	83	99
66		66	91	109
72		72	99	119
78		78	108	129
84			116	139
90			124	149
96			132	158
102			141	168
108				175
114				196
120				206

Weights for polymer coated pipe are 1% to 4% higher, varying by gage.

Handling Weight for **ALUMINUM** ULTRA FLO

Diameter (Inches)	Weight (Pounds/Lineal Foot) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	5	6		
21	6	8	11	
24	7	9	13	
30	9	11	15	
36	11	13	18	23
42	12	15	21	26
48		17	24	30
54		19	27	34
60			30	37
66			33	41
72			36	45
78				49
84				52



ULTRA FLO is available in long lengths. And, its light weight allows it to be unloaded and handled with small equipment.

Reduced excavation because of ULTRA FLO's smaller outside diameter.

Installation Corrugated Metal Pipe

Overview
Satisfactory site preparation, trench excavation, bedding and backfill operations are essential to develop the strength of any flexible conduit. In order to obtain proper strength while preventing settlement, it is necessary that the soil envelope around the pipe be of good granular material, properly placed and carefully compacted.

Bedding
Bedding preparation is critical to both pipe performance and service life. The bed should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the pipe and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots and other foreign matter that may cause unequal settlement.

Placing the pipe
Corrugated metal pipe weighs much less than other commonly used drainage structures. This is due to the efficient strength of the metal, further improved with carefully designed and formed corrugations. Even the heaviest sections of Contech pipe can be handled with relatively light equipment compared with equipment required for much heavier reinforced concrete pipe.

Backfill
Satisfactory backfill material, proper placement and compaction are key factors in obtaining maximum strength and stability. Backfill should be a well-graded granular material and should be free of large stones, frozen lumps and other debris.

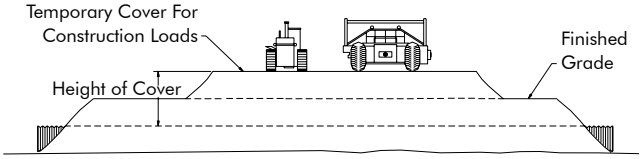
Backfill materials should be placed in layers about six inches deep, deposited alternately on opposite sides of the pipe. Each layer should be compacted carefully. Select backfill is placed and compacted until minimum cover height is reached, at which point, standard road embankment backfill procedures are used.

Installation References
For more information, see AASHTO Bridge Construction Specification Section 26, the Installation Manual of the National Corrugated Steel Pipe Association, ASTM A798 for steel and ASTM B788 for aluminum ULTRA FLO.

Additional Considerations for ULTRA FLO Installations
Bedding and Backfill
Typical ULTRA FLO installation requirements are the same as for any other corrugated metal pipe installed in a trench. Bedding and backfill materials for ULTRA FLO follow the requirements of the CMP installation specifications mentioned above, and must be free from stones, frozen lumps or other debris. When ASTM A796 (steel) or B790 (aluminum) designs are to be followed for condition III requirements, indicated by asterisk (*) in the tables on page 13 and 14, use clean, easily compacted granular backfill materials.

Embankment Conditions
ULTRA FLO is a superior CMP storm sewer product that is normally installed in a trench condition. In those unusual embankment installation conditions, pipe sizes and gages may be restricted. Your Contech Sales Representative can provide you with further guidance.

Construction Loads
For temporary construction vehicle loads, an extra amount of compacted cover may be required over the top of the pipe. The Height of Cover shall meet minimum requirements shown in the table below. The use of heavy construction equipment necessitates greater protection for the pipe than finished grade cover minimums for normal highway traffic.



Min. Height of Cover Requirements for Construction Loads On Corrugated Steel Pipe*

Diameter/ Span, (Inches)	Minimum Cover (feet) for Indicated Axle Loads (kips)			
	18-50	50-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

Min. Height of Cover Requirements for Construction Loads On Corrugated Aluminum Pipe*

Diameter/ Span (Inches)	Axle Load (Kips)			
	18-50	50-75	75-110	110-150
12-42	3.0′	3.5′	4.0′	4.0′
48-72	4.0′	4.0′	5.0′	5.5′
78-120	4.0′	5.0′	5.5′	5.5′

Min. Height of Cover Requirements for Construction Loads On ULTRA FLO Pipe*

Diameter/ Span (Inches)	Axle Load (Kips)			
	18-50	50-75	75-110	110-150
	Steel 3/4″ x 3/4″ x 7-1/2″			
15-42	2.0'	2.5'	3.0'	3.0'
48-72	3.0'	3.0'	3.5'	4.0'
78-108	3.0'	3.5'	4.0'	4.5'
	Aluminum 3/4″ x 3/4″ x 7-1/2″			
15-42	3.0'	3.5'	4.0'	4.0'

* Minimum cover may vary depending on local conditions. The contractor must provide the additional cover required to avoid damage to the pipe. Minimum cover is measured from the top of the pipe to the top of the maintained construction roadway surface.

SmoothCor™ Pipe

Excellent Hydraulics, Long Lengths and Easy Installation

Corrugated Steel Shell

SmoothCor pipe has a smooth interior steel liner that provides a Manning's "n" of 0.012. Its rugged, corrugated steel shell supplies the structural strength to outperform rigid pipe. SmoothCor pipe is both the economical and performance alternate to concrete.

Superior hydraulics

SmoothCor, with its smooth interior surface, is hydraulically superior to conventional corrugated steel pipe and with fewer joints and better interior surface, outperforms reinforced concrete pipe.

SmoothCor, with its long lengths, light weight and beam strength, is superior to concrete pipe in many difficult situations such as poor soils, poor subsurface drainage conditions, steep slopes and high fills. SmoothCor should be specified as an alternate under normal site conditions, and specified exclusively under very difficult situations that demand the strength of CSP with positive joints and a hydraulically efficient smooth liner.

Two Pipe Shapes

In addition to full-round pipe, SmoothCor comes in a pipe-arch shape for limited headroom conditions. The low, wide pipe-arch design distributes the flow area horizontally, enabling it to be installed with lower head room than a round pipe.

Reference specifications

Material	Polymer Coated	ASTM A 929 AASHTO M246 ASTM A 742
Pipe	Polymer	AASHTO M245 ASTM A 762 & A 760
Design	Steel Pipe	AASHTO Section 12 ASTM A 796
Installation	Steel Pipe	AASHTO Section 26 ASTM A 798

Structural Design

SmoothCor is lined with either 18 or 20 gage steel. Contech has taken a conservative approach to the Height of Cover. The maximum heights-of-cover are based on the shell thickness with no additional structural allowance for the liner as provided for in the AASHTO and ASTM design specifications. Using this approach, the Height of Cover tables for 2 2/3" x 1/2" and 3"x1" steel corrugations can be used for SmoothCor.

Diameters

SmoothCor is available in diameters ranging from 18 inches to 66 inches in 2 2/3" x 1/2" corrugation. The 3" x 1" corrugation is available in diameters of 48 inches to 126 inches.

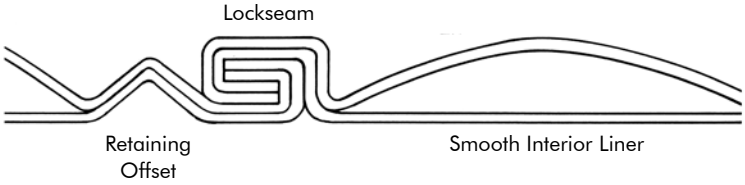
Pipe-arch sizes range from 21" x 15" through 77" x 52" for 2 2/3" x 1/2" corrugations, and 53" x 41" through 137" x 87" for 3"x1" corrugations.

Materials

SmoothCor is available with Dow's TRENCHCOAT® that allows the engineer to design for long service life. TRENCHCOAT is a tough, heavy-gage polymer film laminated to both sides of the steel coil, providing a barrier to corrosion and mild abrasion. TRENCHCOAT is particularly effective for protection in corrosive soils.

Fittings

SmoothCor can be fabricated into any type of structure including tees, elbows, laterals, catch basins, manifolds and reducers. Pre-fabricated fittings are more economical and have superior hydraulic characteristics when compared to concrete structures.



QUICK STAB® Joint

Save Time and Money With Faster Pipe Bell and Spigot Coupling

The Contech QUICK STAB Bell and Spigot joint speeds installation of corrugated metal pipe (CMP), reducing your costs. With the QUICK STAB coupling system, installation of CMP storm sewers and culverts has never been easier or faster.

The QUICK STAB joint creates a bell and spigot joining system with the bell only 1-1/2" larger than the pipe's O.D. Assembled at the factory, the QUICK STAB bell is shipped to the job site ready for installation. The only field operation is placing a special fluted gasket onto the spigot end of the pipe, applying lubricant and pushing it into the bell end of the preceding pipe. Without bands, bolts and wrenches to work and worry with, you can join pipe segments 50% to 90% faster—saving time, money and aggravation.

Soil Tight Joint

Contech's QUICK STAB joint provides the same soil tightness as conventional CMP bands. Each QUICK STAB joint uses a double sealing fluted gasket to seal the spigot against the bell. A flat gasket is installed at the plant between the pipe and the corrugated end of the bell. With the deep bell, you gain maximum soil tightness with minimal installation effort.

Wide Variety of Coatings and Materials

- Plain galvanized
- Aluminized Steel Type 2
- Aluminum
- Polymeric coated

Four Times Faster Installation Than Concrete

The QUICK STAB's bell and spigot joining system allows pipe segments to be joined quicker than reinforced concrete pipe. Next, add in Contech's corrugated metal pipe's length advantage—each segment is four times longer than standard concrete pipe lengths. That means fewer joints and faster installation—up to four times faster! Plus, with the bell only 1-1/2" larger than the pipe, trench excavation is considerably less compared with concrete—again, saving time and money.

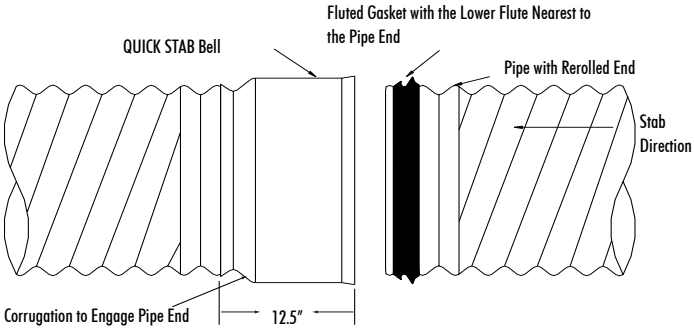
Field Installation Instructions

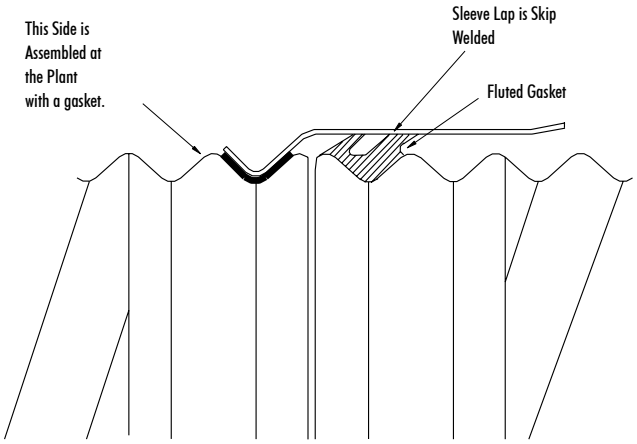
The spigot and bell ends must be cleaned of any dirt or debris prior to assembly. The fluted gasket shall be placed in the first corrugation with the lower flute nearest the end of the pipe. The bell & gasket shall be thoroughly lubed just before stabbing in the bell. Do not place hands, fingers, or any other body parts between bell and spigot during assembly. If it is necessary to pull the joint apart, the bell, spigot and gasket shall be inspected and cleaned of any dirt or debris prior to re-stabbing.

Corrugated Metal Pipe Bell and Spigot Joint Specification

The joints shall be of such design and the ends of the corrugated metal pipe sections so formed that the pipe can be laid together to make a continuous line of pipe. The joint shall be made from the same material as the pipe and shall prevent infiltration of the fill material.

Bell and Spigot Coupling System for CMP





The Bell and Spigot joint is available on ULTRA FLO and 2-2/3" x 1/2" corrugation in 15" through 60" diameter.

End Sections

Easily installed, easily maintained culvert end treatments for corrugated metal pipe, reinforced concrete pipe and HDPE Pipe

Contech End Sections provide a practical, economical and hydraulically superior method of finishing a variety of culvert materials.

The lightweight, flexible metal construction of Contech End Sections creates an attractive, durable and erosion-preventing treatment for all sizes of culvert inlets and outlets. They can be used with corrugated metal pipe having either annular or helical corrugations, and both reinforced concrete and plastic pipes. End sections can be salvaged when lengthening or relocating the culvert.

Standard End Sections are fabricated from pregalvanized steel. For added corrosion resistance, Aluminized Type II or Aluminum End Sections are available in smaller sizes. Special End Sections for multiple pipe installations may be available on a specific inquiry basis.

Better hydraulics

Flow characteristics are greatly improved by the exacting design of Contech End Sections. Scour and sedimentation conditions are improved, and headwater depth can be better controlled. Culverts aligned with the stream flow and finished with Contech End Sections generally require no additional hydraulic controls.

Improved appearance

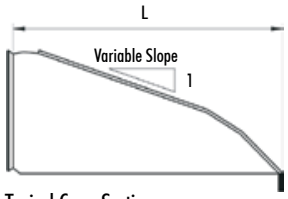
Contech End Sections blend well with the surroundings. The tapered sides of an End Section merge with slope design to improve roadside appearance. Unsightly weeds and debris collection at the culvert end are reduced.

Economical installation

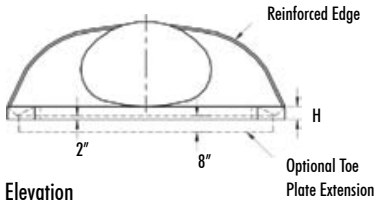
Lightweight equipment and simple crew instructions result in smooth and easy installation. Contech End Sections are easily joined to culvert barrels, forming a continuous, one-piece structure. For easiest installation, End Sections should be installed at the same time as the culvert. Installation is completed by tamping soil around the End Section.

Low maintenance

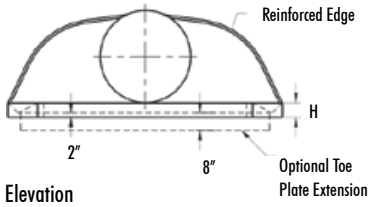
Contech End Sections reduce maintenance expense because their tapered design promotes easier mowing and snow removal. There is no obstruction to hamper weed cutting.



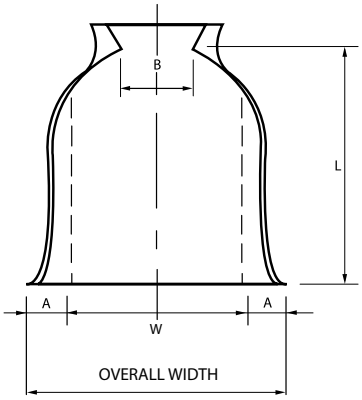
Typical Cross Section



Elevation



Elevation



Plan

Notes for all End Sections:

1. All three-piece bodies to have 12-gage sides and 10-gage center panels. Multiple panel bodies to have lap seams which are to be tightly joined by galvanized rivets or bolts.
2. For 60" through 84" sizes, reinforced edges are supplemented with stiffener angles. The angles are attached by galvanized nuts and bolts. For the 66" and 72" equivalent round pipe-arch sizes, reinforced edges are supplemented by angles. The angles are attached by galvanized nuts and bolts.
3. Angle reinforcements are placed under the center panel seams on the 66" and 72" equivalent round pipe-arch sizes.
4. Toe plate is available as an accessory, when specified on the order, and will be same gage as the End Section.
5. Stiffener angles, angle reinforcement, and toe plates are the same base metal as end section body.
6. **End sections with 6:1 and 4:1 slopes are available in 12" through 24" diameters.**
7. Actual dimensions may vary slightly.
8. During manufacturing, a slight invert slope may result along the length of the end section to be accommodated in the field.

End Sections for Round Pipe (2-2/3″ x 1/2″, 3″ x 1″ and 5″ x 1″)

		Approximate Dimensions, Inches [7]					
Pipe Diameter (Inches)	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (Min) (Inches)**	**L (+/-2") (Inches)**	**W (+/- 2") (Inches)**	**Overall Width (+/- 4") (Inches)**
12	16	6	6	6	21	24	36
15	16	7	8	6	26	30	44
18	16	8	10	6	31	36	52
21	16	9	12	6	36	42	60
24	16	10	13	6	41	48	68
30	14	12	16	8	51	60	84
36	14	14	19	9	60	72	100
42	12	16	22	11	69	84	116
48	12	18	27	12	78	90	126
54	12	18	30	12	84	102	138
60	12/10	18	33	12	87	114	150
66	12/10	18	36	12	87	120	156
72	12/10	18	39	12	87	126	162
78	12/10	18	42	12	87	132	168
84	12/10	18	45	12	87	138	174

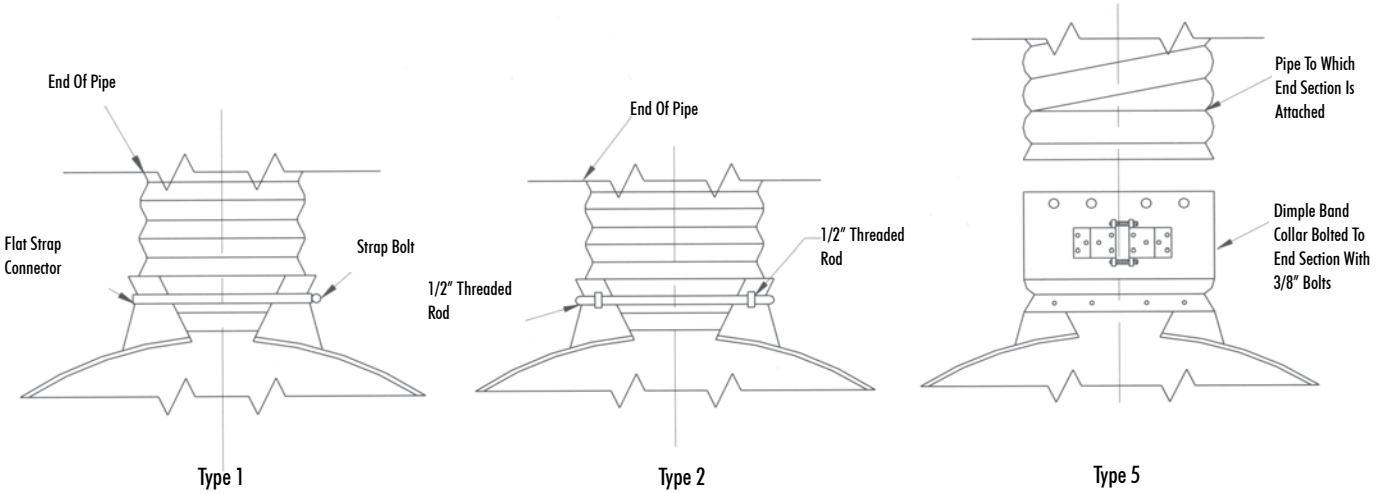
End Sections for Pipe-Arch (2-2/3″ x 1/2″)

			Approximate Dimensions, Inches [7]					
Span/Rise	**Equiv. Round (Inches)**	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (+/- 1") (Inches)**	**L (+/- 2") (Inches)**	**W (+/- 2″) (Inches)**	**Overall Width (+/- 4") (Inches)**
17″x13″	15	16	7	9	6	19	30	44
21″x15″	18	16	7	10	6	23	36	50
24″x18″	21	16	8	12	6	28	42	58
28″x20″	24	16	9	14	6	32	48	66
35″x24″	30	14	10	16	6	39	60	80
42″x29″	36	14	12	18	8	46	75	99
49″x33″	42	12	13	21	9	53	85	111
57″x38″	48	12	18	26	12	63	90	126
64″x43″	54	12	18	30	12	70	102	138
71″x47″	60	12/10	18	33	12	77	114	150
77″x52″	66	12/10	18	36	12	77	126	162
83″x57″	72	12/10	18	39	12	77	138	174

End Sections for Pipe-Arch (3″ x 1″ and 5″ x 1″)

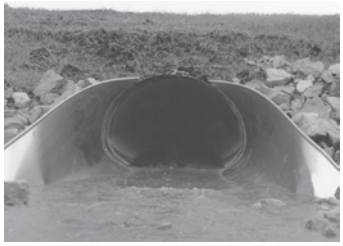
			Approximate Dimensions, Inches [7]					
Span/Rise	**Equiv. Round (Inches)**	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (+/- 1") (Inches)**	**W (+/- 2") (Inches)**	**L (+/- 2") (Inches)**	**Overall Width (+/- 4") (Inches)**
53″x41″	48	12	18	25	12	90	63	126
60″x46″	54	12	18	34	12	102	70	138
66″x51″	60	12/10	18	33	12	116	77	152
73″x55″	66	12/10	18	36	12	126	77	162
81″x59″	72	12/10	18	39	12	138	77	174
87″x63″	78	12/10	20	38	12	148	77	188
95″x67″	84	12/10	20	34	12	162	87	202
103″X71″	90	12/10	20	38	12	174	87	214
112″x75″	96	12/10	20	40	12	174	87	214

Contech End Sections attach to corrugated metal pipe, reinforced concrete and plastic pipe.



Note: *The Type 3 connection is not illustrated. This connection is a one-foot length of pipe attached to the end section.*

End Section on Round CSP



End Sections are available for CSP Pipe-Arch

Contech End Sections are often used on concrete pipe. They can be used on both the bell and spigot end.

Low-slope End Sections—Contech manufactures 4:1 and 6:1 low-slope End Sections for corrugated metal pipe. This photo shows the optional field-attached safety bars.

Contech Engineered Solutions LLC is a leading provider of site solution products and services for the civil engineering industry. Contech's product portfolio includes bridges, drainage, retaining walls, sanitary sewer, stormwater, erosion control, soil stabilization and wastewater products.

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BRO-CMP-DESIGN 8/14 3M PDF

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Table 4. Runoff Coefficients for an Intensity = 0.2 $^{in}/_{hr}$ for Urban Soil Types*

Impervious %	A Soil RI =32	B Soil RI =56	C Soil RI =69	D Soil RI =75
0 (Natural)	0.06	0.14	0.23	0.28
5	0.10	0.18	0.26	0.31
10	0.14	0.22	0.29	0.34
15	0.19	0.26	0.33	0.37
20 (1-Acre)	0.23	0.30	0.36	0.40
25	0.27	0.33	0.39	0.43
30	0.31	0.37	0.43	0.47
35	0.35	0.41	0.46	0.50
40 (1/2-Acre)	0.40	0.45	0.50	0.53
45	0.44	0.48	0.53	0.56
50 (1/4-Acre)	0.48	0.52	0.56	0.59
55	0.52	0.56	0.60	0.62
60	0.56	0.60	0.63	0.65
65 (Condominiums)	0.61	0.64	0.66	0.68
70	0.65	0.67	0.70	0.71
75 (Mobilehomes)	0.69	0.71	0.73	0.74
80 (Apartments)	0.73	0.75	0.77	0.78
85	0.77	0.79	0.80	0.81
90 (Commercial)	0.82	0.82	0.83	0.84
95	0.86	0.86	0.87	0.87
100	0.90	0.90	0.90	0.90

*Complete District's standards can be found in the Riverside County Flood Control Hydrology Manual

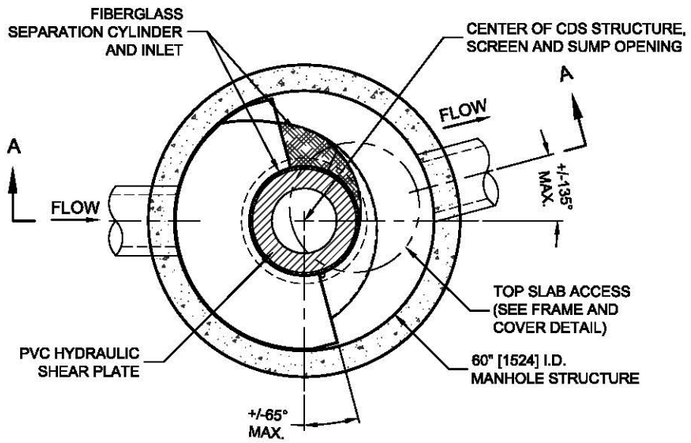
Worksheet 2

Design Procedure Form for Design Flow

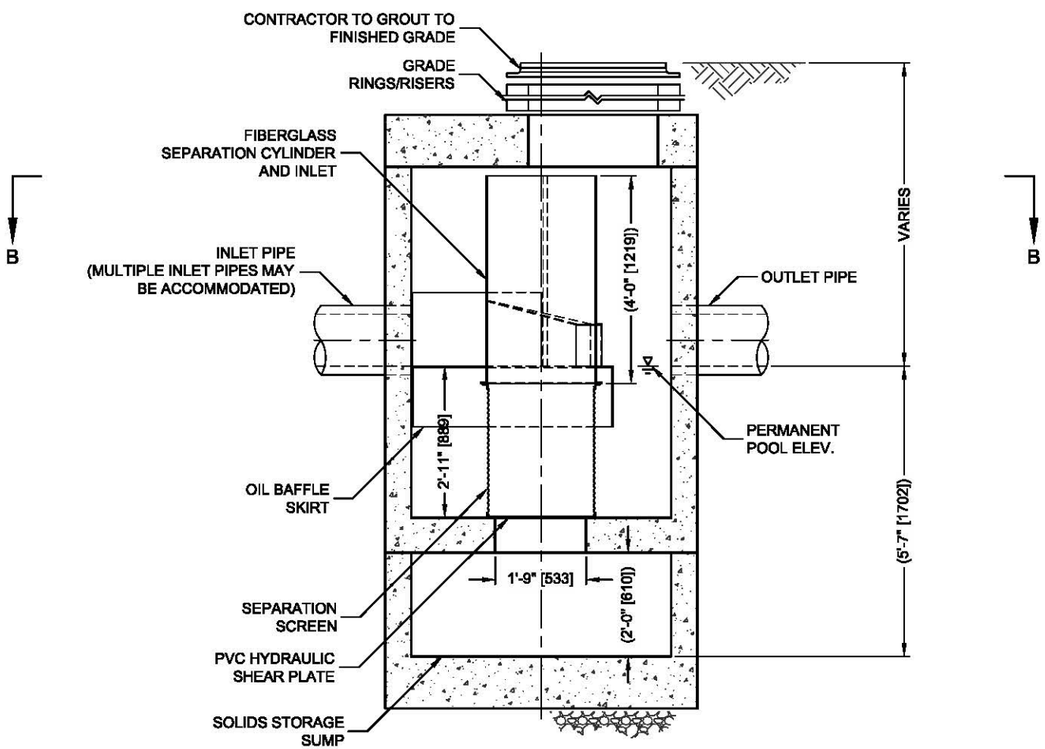
Uniform Intensity Design Flow

Designer: Ryan Peng
Company: Huitt-Zollars, Inc
Date: 02/02/2022
Project: Patriot - 3rd and Central Industrial
Location: CDS#1

1. Determine Impervious Percentage			
a. Determine total tributary area	A_{total} =	3 acres	***(1)***
b. Determine Impervious %	i =	90 %	***(2)***
2. Determine Runoff Coefficient Values Use **Table 4** and impervious % found in step 1			
a. A Soil Runoff Coefficient	C_a =	0.82	***(3)***
b. B Soil Runoff Coefficient	C_b =		***(4)***
c. C Soil Runoff Coefficient	C_c =		***(5)***
d. D Soil Runoff Coefficient	C_d =		***(6)***
3. Determine the Area decimal fraction of each soil type in tributary area			
a. Area of A Soil / ***(1)*** =	A_a =	1	***(7)***
b. Area of B Soil / ***(1)*** =	A_b =		***(8)***
c. Area of C Soil / ***(1)*** =	A_c =		***(9)***
d. Area of D Soil / ***(1)*** =	A_d =		***(10)***
4. Determine Runoff Coefficient			
a. C = ***(3)***x***(7)*** + ***(4)***x***(8)*** + ***(5)***x***(9)*** + ***(6)***x***(10)*** =	C =	0.82	***(11)***
5. Determine BMP Design flow			
a. Q_{BMP} = C x I x A = ***(11)*** x 0.2 x ***(1)***	Q_{BMP} =	0.49 $\frac{ft^3}{s}$	***(12)***



PLAN VIEW B-B
N.T.S.

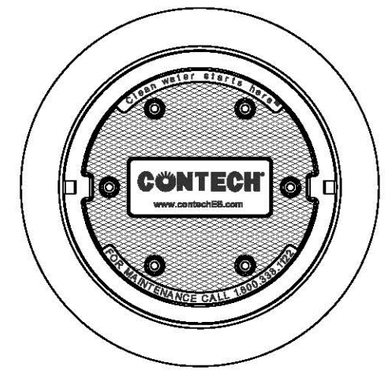


ELEVATION A-A
N.T.S.

CDS2025-5-C DESIGN NOTES

THE STANDARD CDS2025-5-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			CDS#1
WATER QUALITY FLOW RATE (CFS OR L/s)			0.49
PEAK FLOW RATE (CFS OR L/s)			12
RETURN PERIOD OF PEAK FLOW (YRS)			100
SCREEN APERTURE (2400 OR 4700)			2400
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	TBD	TBD	TBD
INLET PIPE 2			
OUTLET PIPE	TBD	TBD	TBD
RIM ELEVATION			1159.75
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

DETAIL WILL BE PROVIDED IN FINAL WQMP

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,706,445; 6,641,720; 6,611,596; 5,991,799; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

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CDS2025-5-C
INLINE CDS
STANDARD DETAIL

C:\USERS\SCHLACHTER\DESKTOP\CDS DETAILS 180 MICRON SIZING\CACAD\CDS2025-5-C-DTL.DWG 5/19/2014 5:20 PM

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CDS Guide
Operation, Design, Performance and Maintenance

CDS®

Using patented continuous deflective separation technology, the CDS system screens, separates and traps debris, sediment, and oil and grease from stormwater runoff. The indirect screening capability of the system allows for 100% removal of floatables and neutrally buoyant material without blinding. Flow and screening controls physically separate captured solids, and minimize the re-suspension and release of previously trapped pollutants. Inline units can treat up to 6 cfs, and internally bypass flows in excess of 50 cfs (1416 L/s). Available precast or cast-in-place, offline units can treat flows from 1 to 300 cfs (28.3 to 8495 L/s). The pollutant removal capacity of the CDS system has been proven in lab and field testing.

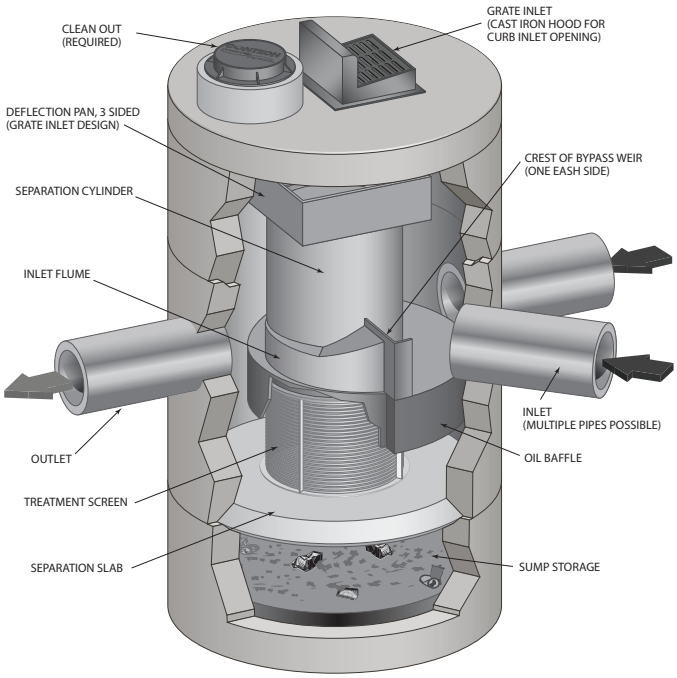
Operation Overview

Stormwater enters the diversion chamber where the diversion weir guides the flow into the unit's separation chamber and pollutants are removed from the flow. All flows up to the system's treatment design capacity enter the separation chamber and are treated.

Swirl concentration and screen deflection force floatables and solids to the center of the separation chamber where 100% of floatables and neutrally buoyant debris larger than the screen apertures are trapped.

Stormwater then moves through the separation screen, under the oil baffle and exits the system. The separation screen remains clog free due to continuous deflection.

During the flow events exceeding the treatment design capacity, the diversion weir bypasses excessive flows around the separation chamber, so captured pollutants are retained in the separation cylinder.



Design Basics

There are three primary methods of sizing a CDS system. The Water Quality Flow Rate Method determines which model size provides the desired removal efficiency at a given flow rate for a defined particle size. The Rational Rainfall Method™ or the and Probabilistic Method is used when a specific removal efficiency of the net annual sediment load is required.

Typically in the Unites States, CDS systems are designed to achieve an 80% annual solids load reduction based on lab generated performance curves for a gradation with an average particle size (d50) of 125 microns (μm). For some regulatory environments, CDS systems can also be designed to achieve an 80% annual solids load reduction based on an average particle size (d50) of 75 microns (μm) or 50 microns (μm).

Water Quality Flow Rate Method

In some cases, regulations require that a specific treatment rate, often referred to as the water quality design flow (WQQ), be treated. This WQQ represents the peak flow rate from either an event with a specific recurrence interval, e.g. the six-month storm, or a water quality depth, e.g. 1/2-inch (13 mm) of rainfall.

The CDS is designed to treat all flows up to the WQQ. At influent rates higher than the WQQ, the diversion weir will direct most flow exceeding the WQQ around the separation chamber. This allows removal efficiency to remain relatively constant in the separation chamber and eliminates the risk of washout during bypass flows regardless of influent flow rates.

Treatment flow rates are defined as the rate at which the CDS will remove a specific gradation of sediment at a specific removal efficiency. Therefore the treatment flow rate is variable, based on the gradation and removal efficiency specified by the design engineer.

Rational Rainfall Method™

Differences in local climate, topography and scale make every site hydraulically unique. It is important to take these factors into consideration when estimating the long-term performance of any stormwater treatment system. The Rational Rainfall Method combines site-specific information with laboratory generated performance data, and local historical precipitation records to estimate removal efficiencies as accurately as possible.

Short duration rain gauge records from across the United States and Canada were analyzed to determine the percent of the total annual rainfall that fell at a range of intensities. US stations' depths were totaled every 15 minutes, or hourly, and recorded in 0.01-inch increments. Depths were recorded hourly with 1-mm resolution at Canadian stations. One trend was consistent at all sites; the vast majority of precipitation fell at low intensities and high intensity storms contributed relatively little to the total annual depth.

These intensities, along with the total drainage area and runoff coefficient for each specific site, are translated into flow rates using the Rational Rainfall Method. Since most sites are relatively small and highly impervious, the Rational Rainfall Method is appropriate. Based on the runoff flow rates calculated for each intensity, operating rates within a proposed CDS system are

determined. Performance efficiency curve determined from full scale laboratory tests on defined sediment PSDs is applied to calculate solids removal efficiency. The relative removal efficiency at each operating rate is added to produce a net annual pollutant removal efficiency estimate.

Probabilistic Rational Method

The Probabilistic Rational Method is a sizing program Contech developed to estimate a net annual sediment load reduction for a particular CDS model based on site size, site runoff coefficient, regional rainfall intensity distribution, and anticipated pollutant characteristics.

The Probabilistic Method is an extension of the Rational Method used to estimate peak discharge rates generated by storm events of varying statistical return frequencies (e.g. 2-year storm event). Under the Rational Method, an adjustment factor is used to adjust the runoff coefficient estimated for the 10-year event, correlating a known hydrologic parameter with the target storm event. The rainfall intensities vary depending on the return frequency of the storm event under consideration. In general, these two frequency dependent parameters (rainfall intensity and runoff coefficient) increase as the return frequency increases while the drainage area remains constant.

These intensities, along with the total drainage area and runoff coefficient for each specific site, are translated into flow rates using the Rational Method. Since most sites are relatively small and highly impervious, the Rational Method is appropriate. Based on the runoff flow rates calculated for each intensity, operating rates within a proposed CDS are determined. Performance efficiency curve on defined sediment PSDs is applied to calculate solids removal efficiency. The relative removal efficiency at each operating rate is added to produce a net annual pollutant removal efficiency estimate.

Treatment Flow Rate

The inlet throat area is sized to ensure that the WQQ passes through the separation chamber at a water surface elevation equal to the crest of the diversion weir. The diversion weir bypasses excessive flows around the separation chamber, thus preventing re-suspension or re-entrainment of previously captured particles.

Hydraulic Capacity

The hydraulic capacity of a CDS system is determined by the length and height of the diversion weir and by the maximum allowable head in the system. Typical configurations allow hydraulic capacities of up to ten times the treatment flow rate. The crest of the diversion weir may be lowered and the inlet throat may be widened to increase the capacity of the system at a given water surface elevation. The unit is designed to meet project specific hydraulic requirements.

Performance

Full-Scale Laboratory Test Results

A full-scale CDS system (Model CDS2020-5B) was tested at the facility of University of Florida, Gainesville, FL. This CDS unit was evaluated under controlled laboratory conditions of influent flow rate and addition of sediment.

Two different gradations of silica sand material (UF Sediment & OK-110) were used in the CDS performance evaluation. The particle size distributions (PSDs) of the test materials were analyzed using standard method "Gradation ASTM D-422 "Standard Test Method for Particle-Size Analysis of Soils" by a certified laboratory.

UF Sediment is a mixture of three different products produced by the U.S. Silica Company: "Sil-Co-Sil 106", "#1 DRY" and "20/40 Oil Frac". Particle size distribution analysis shows that the UF Sediment has a very fine gradation (d50 = 20 to 30 μm) covering a wide size range (Coefficient of Uniformity, C averaged at 10.6). In comparison with the hypothetical TSS gradation specified in the NJDEP (New Jersey Department of Environmental Protection) and NJCAT (New Jersey Corporation for Advanced Technology) protocol for lab testing, the UF Sediment covers a similar range of particle size but with a finer d50 (d50 for NJDEP is approximately 50 μm) (NJDEP, 2003).

The OK-110 silica sand is a commercial product of U.S. Silica Sand. The particle size distribution analysis of this material, also included in Figure 1, shows that 99.9% of the OK-110 sand is finer than 250 microns, with a mean particle size (d50) of 106 microns. The PSDs for the test material are shown in Figure 1.

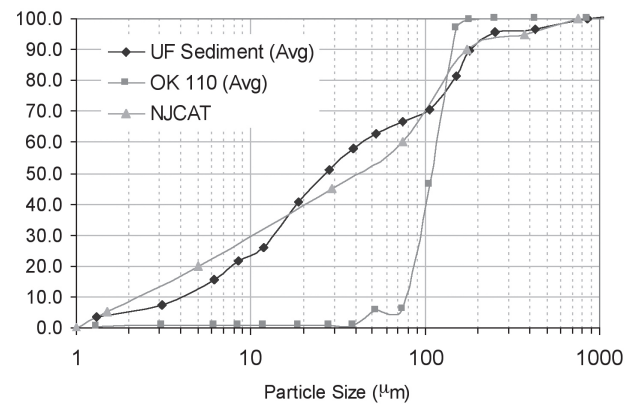


Figure 1. Particle size distributions

Tests were conducted to quantify the performance of a specific CDS unit (1.1 cfs (31.3-L/s) design capacity) at various flow rates, ranging from 1% up to 125% of the treatment design capacity of the unit, using the 2400 micron screen. All tests were conducted with controlled influent concentrations of approximately 200 mg/L. Effluent samples were taken at equal time intervals across the entire duration of each test run. These samples were then processed with a Dekaport Cone sample splitter to obtain representative sub-samples for Suspended Sediment Concentration (SSC) testing using ASTM D3977-97 "Standard Test Methods for Determining Sediment Concentration in Water Samples", and particle size distribution analysis.

Results and Modeling

Based on the data from the University of Florida, a performance model was developed for the CDS system. A regression analysis was used to develop a fitting curve representative of the scattered data points at various design flow rates. This model, which demonstrated good agreement with the laboratory data, can then be used to predict CDS system performance with respect

to SSC removal for any particle size gradation, assuming the particles are inorganic sandy-silt. Figure 2 shows CDS predictive performance for two typical particle size gradations (NJCAT gradation and OK-110 sand) as a function of operating rate.

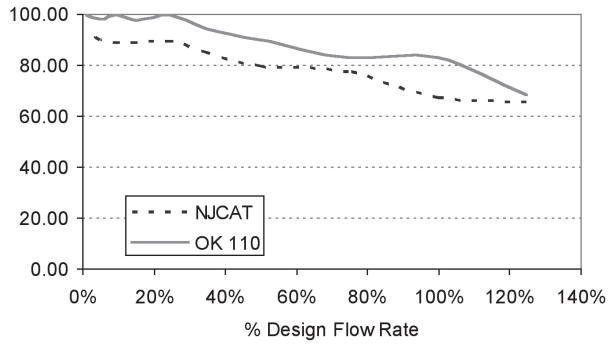


Figure 2. CDS stormwater treatment predictive performance for various particle gradations as a function of operating rate.

Many regulatory jurisdictions set a performance standard for hydrodynamic devices by stating that the devices shall be capable of achieving an 80% removal efficiency for particles having a mean particle size (d50) of 125 microns (e.g. Washington State Department of Ecology — WASDOE - 2008). The model can be used to calculate the expected performance of such a PSD (shown in Figure 3). The model indicates (Figure 4) that the CDS system with 2400 micron screen achieves approximately 80% removal at the design (100%) flow rate, for this particle size distribution (d50 = 125 μm).

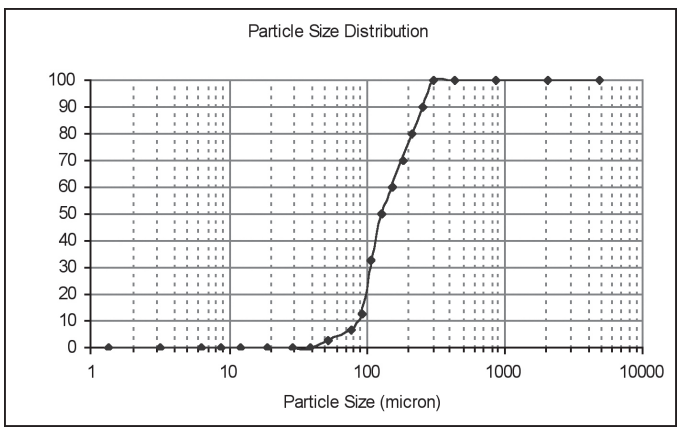


Figure 3. WASDOE PSD

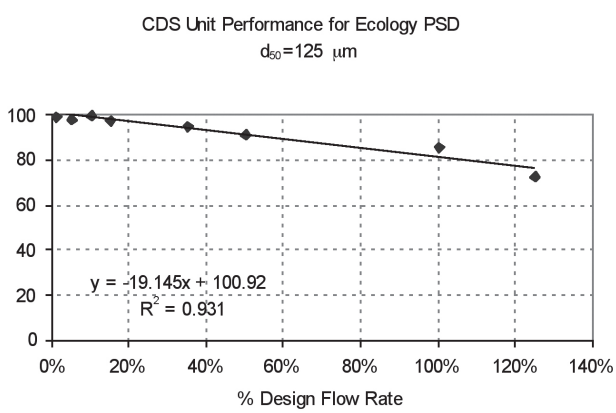


Figure 4. Modeled performance for WASDOE PSD.

Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified

during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allows both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine weather the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS systems should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

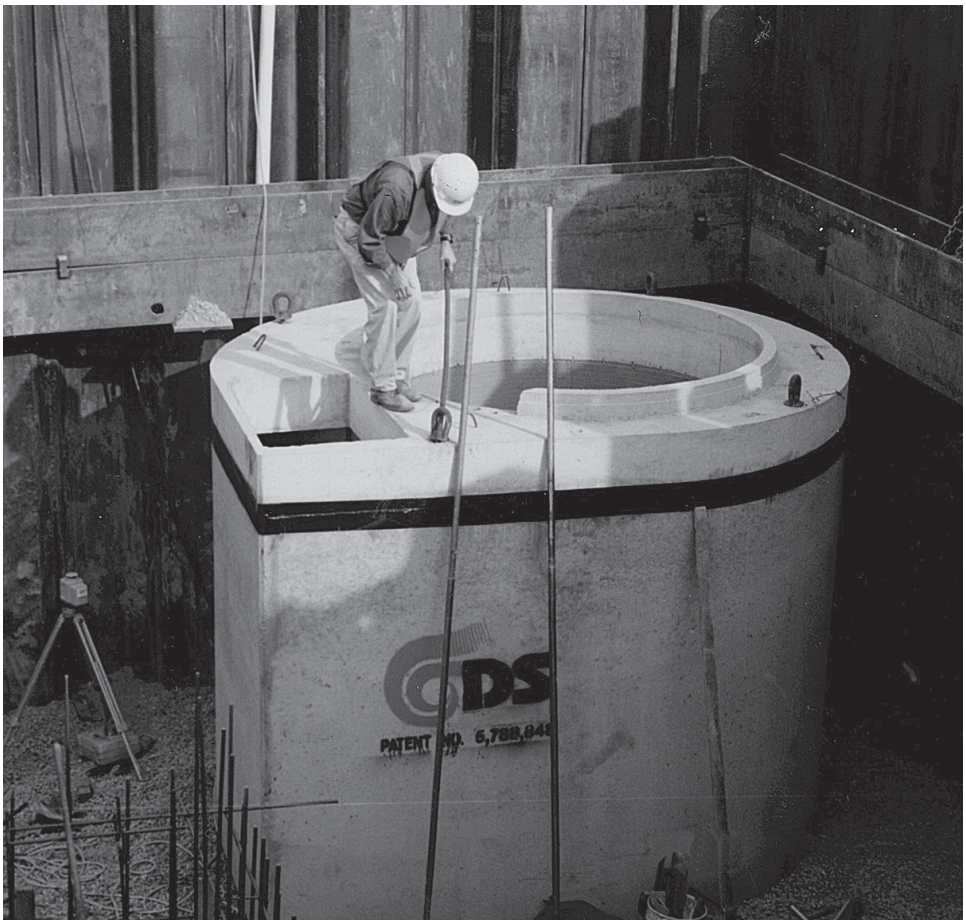
In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be cleaned to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal.

CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	yd3	m3
CDS2015-4	4	1.2	3.0	0.9	0.5	0.4
CDS2015	5	1.5	3.0	0.9	1.3	1.0
CDS2020	5	1.5	3.5	1.1	1.3	1.0
CDS2025	5	1.5	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities

Note: To avoid underestimating the volume of sediment in the chamber, carefully lower the measuring device to the top of the sediment pile. Finer silty particles at the top of the pile may be more difficult to feel with a measuring stick. These finer particles typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile.



CDS Inspection & Maintenance Log

CDS Model: _____ Location: _____

Date	Water depth to sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than eighteen inches the system should be cleaned out. **Note: To avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.**

2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

7

Support

- Drawings and specifications are available at www.ContechES.com/urbangreen.
- Site-specific design support is available from our engineers.

CONTECH®
ENGINEERED SOLUTIONS
800-338-1122
www.ContechES.com

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The product(s) described may be protected by one or more of the following US patents: 5,322,629; 5,624,576; 5,707,527; 5,759,415; 5,788,848; 5,985,157; 6,027,639; 6,350,374; 6,406,218; 6,641,720; 6,511,595; 6,649,048; 6,991,114; 6,998,038; 7,186,058; 7,296,692; 7,297,266; related foreign patents or other patents pending.

cds_manual 2/13 PDF

RECYCLED PAPER

Attachment C

Educational Material & BMP Fact Sheet

Help Protect Our Waterways!

Use these guidelines for Outdoor Cleaning Activities and Wash Water Disposal

Did you know that disposing of pollutants into the street, gutter, storm drain or body of water is *PROHIBITED* by law and can result in stiff penalties?

Best Management Practices

Waste wash water from Mechanics, Plumbers, Window/Power Washers, Carpet Cleaners, Car Washing and Mobile Detailing activities may contain significant quantities of motor oil, grease, chemicals, dirt, detergents, brake pad dust, litter and other materials.

Best Management Practices, or BMPs as they are known, are guides to prevent pollutants from entering the storm drains. ***Each of us*** can do our part to keep stormwater clean by using the suggested BMPs below:

Simple solutions for both light and heavy duty jobs:

Do...consider dry cleaning methods first such as a mop, broom, rag or wire brush. Always keep a spill response kit on site.

Do...prepare the work area before power cleaning by using sand bags, rubber mats, vacuum booms, containment pads or temporary berms to keep wash water away from the gutters and storm drains.

Do...use vacuums or other machines to remove and collect loose debris or litter before applying water.

Do...obtain the property owner's permission to dispose of ***small amounts*** of power washing waste water on to landscaped, gravel or unpaved surfaces.

Do...check your local sanitary sewer agency's policies on wash water disposal regulations before disposing of wash water into the sewer. (See list on reverse side)

Do...be aware that if discharging to landscape areas, soapy wash water may damage landscaping. Residual wash water may remain on paved surfaces to evaporate. Sweep up solid residuals and dispose of properly. Vacuum booms are another option for capturing and collecting wash water.

Do...check to see if local ordinances prevent certain activities.

Do not let...wash or waste water from sidewalk, plaza or building cleaning go into a street or storm drain.

ONLY RAIN... DOWN THE STORM DRAIN

Report illegal storm drain disposal
Call Toll Free
1-800-506-2555

Using Cleaning Agents

Try using biodegradable/phosphate-free products. They are easier on the environment, but don't confuse them with being toxic free. Soapy water entering the storm drain system can impact the delicate aquatic environment.

When cleaning surfaces with a ***high-pressure washer*** or ***steam cleaner***, additional precautions should be taken to prevent the discharge of pollutants into the storm drain system. These two methods of surface cleaning can loosen additional material that can contaminate local waterways.

Think Water Conservation

Minimize water use by using high pressure, low volume nozzles. Be sure to check all hoses for leaks. Water is a precious resource, don't let it flow freely and be sure to shut it off in between uses.

Screening Wash Water

Conduct thorough dry cleanup before washing exterior surfaces, such as buildings and decks ***with loose paint***, sidewalks or plaza areas. Keep debris from entering the storm drain after cleaning by first passing the wash water through a "20 mesh" or finer screen to catch the solid materials, then dispose of the mesh in a refuse container. Do not let the remaining wash water enter a street, gutter or storm drain.

Drain Inlet Protection & Collection of Wash Water

- Prior to any washing, block all storm drains with an impervious barrier such as sandbags or berms, or seal the storm drain with plugs or other appropriate materials.
- Create a containment area with berms and traps or take advantage of a low spot to keep wash water contained.
- Wash vehicles and equipment on grassy or gravel areas so that the wash water can seep into the ground.
- Pump or vacuum up all wash water in the contained area.

Concrete/Coring/Saw Cutting and Drilling Projects

Protect any down-gradient inlets by using dry activity techniques whenever possible. If water is used, minimize the amount of water used during the coring/drilling or saw cutting process. Place a barrier of sandbags and/or absorbent berms to protect the storm drain inlet or watercourse. Use a shovel or wet vacuum to remove the residue from the pavement. Do not wash residue or particulate matter into a storm drain inlet or watercourse.

Helpful telephone numbers and links:

Riverside County Stormwater Protection Partners

Flood Control District	(951) 955-1200
County of Riverside	(951) 955-1000
City of Banning	(951) 922-3105
City of Beaumont	(951) 769-8520
City of Calimesa	(909) 795-9801
City of Canyon Lake	(951) 244-2955
Cathedral City	(760) 770-0327
City of Coachella	(760) 398-4978
City of Corona	(951) 736-2447
City of Desert Hot Springs	(760) 329-6411
City of Eastvale	(951) 361-0900
City of Hemet	(951) 765-2300
City of Indian Wells	(760) 346-2489
City of Indio	(760) 391-4000
City of Lake Elsinore	(951) 674-3124
City of La Quinta	(760) 777-7000
City of Menifee	(951) 672-6777
City of Moreno Valley	(951) 413-3000
City of Murrieta	(951) 304-2489
City of Norco	(951) 270-5607
City of Palm Desert	(760) 346-0611
City of Palm Springs	(760) 323-8299
City of Perris	(951) 943-6100
City of Rancho Mirage	(760) 324-4511
City of Riverside	(951) 361-0900
City of San Jacinto	(951) 654-7337
City of Temecula	(951) 694-6444
City of Wildomar	(951) 677-7751

REPORT ILLEGAL STORM DRAIN DISPOSAL
1-800-506-2555 or e-mail us at
fcnpdes@rcflood.org

- Riverside County Flood Control and Water Conservation District
  www.rcflood.org

Online resources include:

- California Storm Water Quality Association
  www.casqa.org
- State Water Resources Control Board
  www.waterboards.ca.gov
- Power Washers of North America
  www.thepwna.org

Stormwater Pollution

What you should know for...

Outdoor Cleaning Activities and Professional Mobile Service Providers

Storm drain pollution prevention information for:

- Car Washing / Mobile Detailers
- Window and Carpet Cleaners
- Power Washers
- Waterproofers / Street Sweepers
- Equipment cleaners or degreasers and all mobile service providers

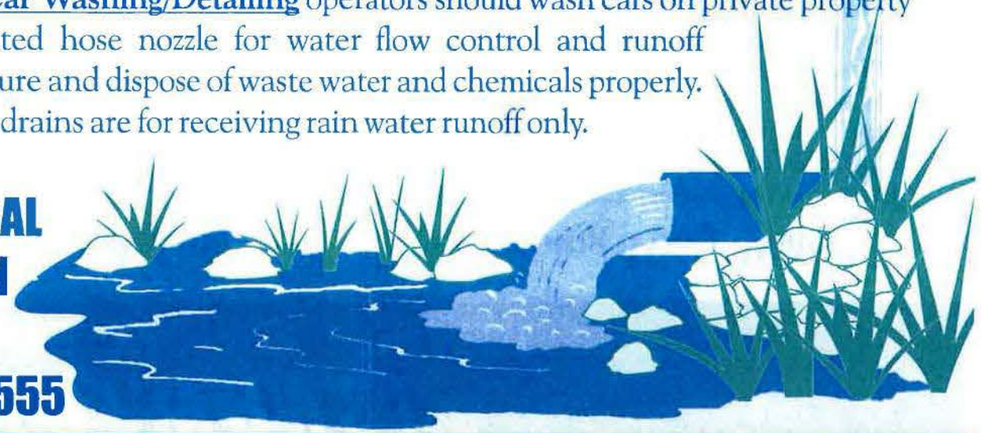
Do you know where street flows actually go?

Storm drains are NOT connected to sanitary sewer systems and treatment plants!

The primary purpose of storm drains is to carry *rain* water away from developed areas to prevent flooding. Pollutants discharged to storm drains are transported directly into rivers, lakes and streams. Soaps, degreasers, automotive fluids, litter and a host of materials are washed off buildings, sidewalks, plazas and parking areas. Vehicles and equipment must be properly managed to prevent the pollution of local waterways.

Unintentional spills by mobile service operators can flow into storm drains and pollute our waterways. **Avoid mishaps.** *Always* have a **Spill Response Kit** on hand to clean up unintentional spills. Only emergency **Mechanical** repairs should be done in City streets, using drip pans for spills. **Plumbing** should be done on private property. Always store chemicals in a leak-proof container and keep covered when not in use. **Window/Power Washing** waste water shouldn't be released into the streets, but should be disposed of in a sanitary sewer, landscaped area or in the soil. Soiled **Carpet Cleaning** wash water should be filtered before being discharged into the sanitary sewer. Dispose of all filter debris properly. **Car Washing/Detailing** operators should wash cars on private property and use a regulated hose nozzle for water flow control and runoff prevention. Capture and dispose of waste water and chemicals properly. Remember, storm drains are for receiving rain water runoff only.

REPORT ILLEGAL STORM DRAIN DISPOSAL 1-800-506-2555



EPA 833-B-03-002

January 2003

After the Storm

A Citizen's Guide to Understanding Stormwater

For more information contact:

or visit
www.epa.gov/npdes/stormwater
www.epa.gov/nps

What is stormwater runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.

Why is stormwater runoff a problem?

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.

The effects of pollution

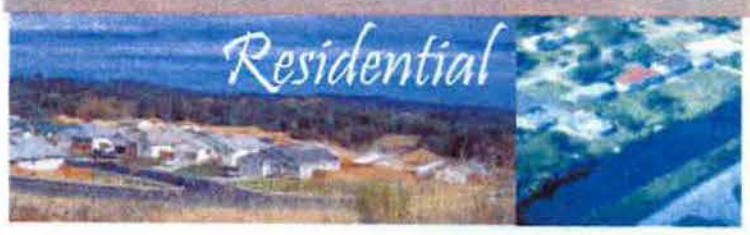
Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.

- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

Stormwater Pollution Solutions

Residential



Recycle or properly dispose of household products that contain chemicals, such as insecticides, pesticides, paint, solvents, and used motor oil and other auto fluids. Don't pour them onto the ground or into storm drains.

Lawn care

Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams. In addition, yard clippings and leaves can wash into storm drains and contribute nutrients and organic matter to streams.

- Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- Compost or mulch yard waste. Don't leave it in the street or sweep it into storm drains or streams.
- Cover piles of dirt or mulch being used in landscaping projects.

Auto care

Washing your car and degreasing auto parts at home can send detergents and other contaminants through the storm sewer system. Dumping automotive fluids into storm drains has the same result as dumping the materials directly into a waterbody.

- Use a commercial car wash that treats or recycles its wastewater, or wash your car on your yard so the water infiltrates into the ground.
- Repair leaks and dispose of used auto fluids and batteries at designated drop-off or recycling locations.

Septic systems

Leaking and poorly maintained septic systems release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies. Pathogens can cause public health problems and environmental concerns.

- Inspect your system every 3 years and pump your tank as necessary (every 3 to 5 years).
- Don't dispose of household hazardous waste in sinks or toilets.

Pet waste

Pet waste can be a major source of bacteria and excess nutrients in local waters.

- When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Education is essential to changing people's behavior. Signs and markers near storm drains warn residents that pollutants entering the drains will be carried untreated into a local waterbody.

Residential landscaping

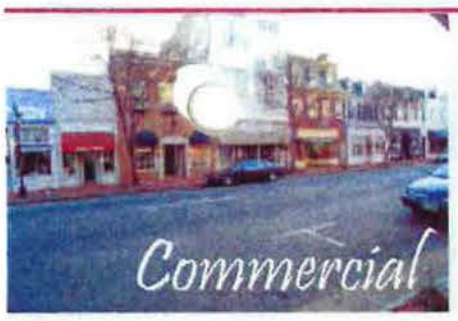
Permeable Pavement—Traditional concrete and asphalt don't allow water to soak into the ground. Instead these surfaces rely on storm drains to divert unwanted water. Permeable pavement systems allow rain and snowmelt to soak through, decreasing stormwater runoff.

Rain Barrels—You can collect rainwater from rooftops in mosquito-proof containers. The water can be used later on lawn or garden areas.

Rain Gardens and Grassy Swales—Specially designed areas planted with native plants can provide natural places for rainwater to collect and soak into the ground. Rain from rooftop areas or paved areas can be diverted into these areas rather than into storm drains.

Vegetated Filter Strips—Filter strips are areas of native grass or plants created along roadways or streams. They trap the pollutants stormwater picks up as it flows across driveways and streets.

Commercial



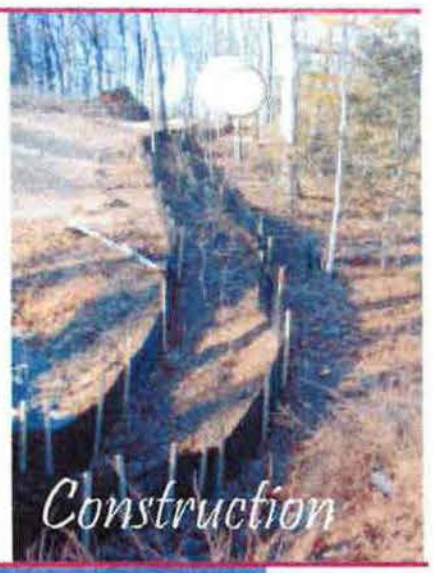
Dirt, oil, and debris that collect in parking lots and paved areas can be washed into the storm sewer system and eventually enter local waterbodies.

- Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- Cover grease storage and dumpsters and keep them clean to avoid leaks.
- Report any chemical spill to the local hazardous waste cleanup team. They'll know the best way to keep spills from harming the environment.

Construction

Erosion controls that aren't maintained can cause massive amounts of sediment and debris to be washed into the stormwater system. Construction vehicles can leak fuel, oil, and other harmful fluids that can be picked up by stormwater and deposited into local waterbodies.

- Divert stormwater away from disturbed or exposed areas of the construction site.
- Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- Prevent soil erosion by minimizing disturbed areas during construction projects, and seed and mulch bare areas as soon as possible.



Agriculture

Lack of vegetation on streambanks can lead to erosion. Overgrazed pastures can also contribute excessive amounts of sediment to local waterbodies. Excess fertilizers and pesticides can poison aquatic animals and lead to destructive algae blooms. Livestock in streams can contaminate waterways with bacteria, making them unsafe for human contact.

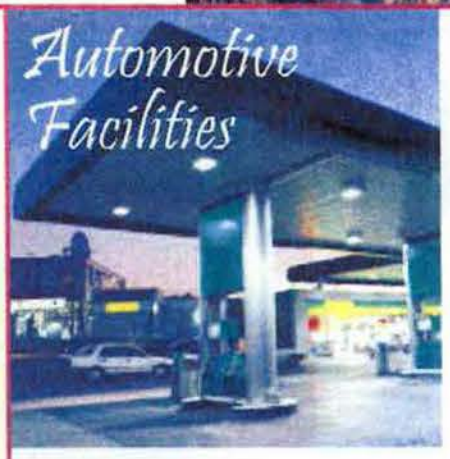
- Keep livestock away from streambanks and provide them a water source away from waterbodies.
- Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- Vegetate riparian areas along waterways.
- Rotate animal grazing to prevent soil erosion in fields.
- Apply fertilizers and pesticides according to label instructions to save money and minimize pollution.

Forestry

Improperly managed logging operations can result in erosion and sedimentation.

- Conduct preharvest planning to prevent erosion and lower costs.
- Use logging methods and equipment that minimize soil disturbance.
- Plan and design skid trails, yard areas, and truck access roads to minimize stream crossings and avoid disturbing the forest floor.
- Construct stream crossings so that they minimize erosion and physical changes to streams.
- Expedite revegetation of cleared areas.

Automotive Facilities



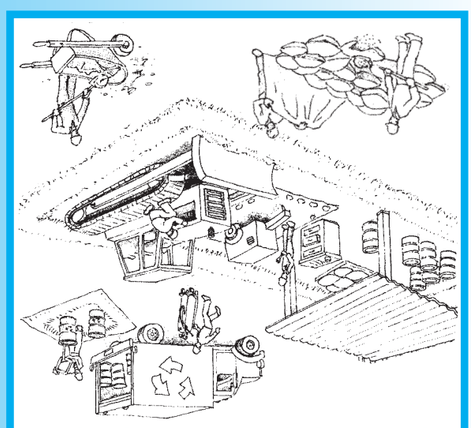
Uncovered fueling stations allow spills to be washed into storm drains. Cars waiting to be repaired can leak fuel, oil, and other harmful fluids that can be picked up by stormwater.

- Clean up spills immediately and properly dispose of cleanup materials.
- Provide cover over fueling stations and design or retrofit facilities for spill containment.
- Properly maintain fleet vehicles to prevent oil, gas, and other discharges from being washed into local waterbodies.
- Install and maintain oil/water separators.

StormWater Pollution

What you should know for...

GENERAL CONSTRUCTION & SITE SUPERVISION



Best Management Practices (BMPs) for:

- Developers
- General Contractors
- Home Builders
- Construction Inspectors
- Anyone in the construction business

To report a hazardous materials spill, call:

Riverside County Hazardous Materials
Emergency Response Team
(909) 358-5055 8:00 a.m. – 5:00 p.m.
(909) 358-5245 after 5:00 p.m.

In an emergency call: **911**

For recycling and hazardous waste disposal, call:

(909) 358-5055

To report an illegal dumping or a clogged storm drain, call:

1-800-506-2555

To order additional brochures or to obtain information on other pollution prevention activities, please call (909) 955-1200 or visit the StormWater/CleanWater Protection Program website at:
www.co.riverside.ca.us/depts/flood/waterquality/npdes.asp

StormWater CleanWater PROTECTION PROGRAM

The StormWater/CleanWater Protection Program gratefully acknowledges the Santa Clara Valley Nonpoint Pollution Control Program, Alameda Countywide CleanWater Program and the City of Los Angeles Stormwater Management Division for information provided in this brochure.

Resources

State Water Resources Control Board
Division of Water Quality
1001 I Street
Sacramento CA 95814
(916) 341-5455
www.swrcb.ca.gov/stormwtr/

Colorado River Basin Regional Water Quality Control Board - Region 7
73-720 Fred Waring Drive, Suite 100
Palm Desert, CA 92260
(760) 346-7491
www.swrcb.ca.gov/~rwqcb7/

Santa Ana Regional Water Quality Control Board - Region 8
3737 Main Street, Suite 500
Riverside, CA 92501-3348
(909) 782-4130
www.swrcb.ca.gov/~rwqcb8/

San Diego Regional Water Quality Control Board - Region 9
9771 Clairemont Mesa Blvd., Suite A
San Diego, CA 92124
(858) 467-2952
www.swrcb.ca.gov/~rwqcb9/

StormWater Pollution from Construction Activities

The two most common sources of stormwater pollution problems associated with construction activities are ***erosion*** and ***sedimentation***. Failure to maintain adequate erosion and sediment controls at construction sites often results in sediment discharges into the storm drain system, creating multiple problems once it enters local waterways.

Construction vehicles and heavy equipment can also track significant amounts of mud and sediment onto adjacent streets. Additionally, wind may transport construction materials and wastes into streets storm drains, or directly into our local waterways.

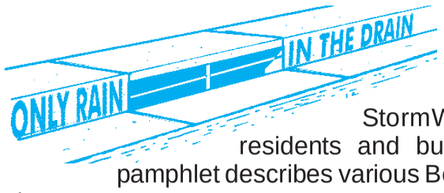
StormWater Pollution . . . What You Should Know

Riverside County has two drainage systems - sewers and storm drains. The storm drain system was designed to reduce flooding by carrying excess rainwater away from streets and developed areas. Since the storm drain system does not provide for water treatment, it also serves the *unintended* function of transporting pollutants directly to our local waterways.

Unlike sanitary sewers, storm drains are not connected to a wastewater treatment plant – they flow directly to our local streams, rivers and lakes.

Stormwater runoff is a part of the natural hydrologic process. However, land development and construction activities can significantly alter natural drainage processes and introduce pollutants into stormwater runoff. Polluted stormwater runoff from construction sites has been identified as a major source of water pollution in California. It jeopardizes the quality of our local waterways and can pose a serious threat to the health of our aquatic ecosystems.

The Cities and County of Riverside StormWater/CleanWater Protection Program



Because preventing pollution is much easier and less costly than cleaning up "after the fact," the Cities and County of Riverside StormWater/CleanWater Protection Program informs residents and businesses on pollution prevention activities. This pamphlet describes various Best Management Practices (BMPs) that construction site operators can use to prevent stormwater pollution.

In accordance with applicable federal and state law, the Cities and County of Riverside have adopted ordinances for stormwater management and discharge control that **prohibit** the discharge of pollutants into the storm drain system or local surface water. This includes discharges from construction sites containing sediment, concrete, mortar, paint, solvents, lubricants, vehicle fluids, fuel, pesticides, and construction debris.

PLEASE NOTE: The Federal, State and local regulations strictly prohibit the discharge of sediment and pollutants into the streets, the storm drain system or waterways. As an owner, operator or supervisor of a construction site, you may be held financially responsible for any environmental damage caused by your subcontractors or employees.

What Should You Do?

Advance Planning to Prevent Pollution

- ❑ Remove existing vegetation only as needed.
- ❑ Schedule excavation, grading, and paving operations for dry weather periods, if possible.
- ❑ Designate a specific area of the construction site, well away from storm drain inlets or watercourses, for material storage and equipment maintenance.
- ❑ Develop and implement an effective combination of erosion and sediment controls for the construction site.
- ❑ Practice source reduction by ordering only the amount of materials that are needed to finish the project.
- ❑ Educate your employees and subcontractors about stormwater management requirements and their pollution prevention responsibilities.
- ❑ Control the amount of surface runoff at the construction site by impeding internally generated flows and using berms or drainage ditches to direct incoming offsite flows to go around the site. ***Note:*** *Consult local drainage policies for more information.*

Best Management Practices

The following Best Management Practices (BMPs) can significantly reduce pollutant discharges from your construction site. Compliance with stormwater regulations can be as simple as minimizing stormwater contact with potential pollutants by providing covers and secondary containment for construction materials, designating areas away from storm drain systems for storing equipment and materials and implementing good housekeeping practices at the construction site.

- ❑ Protect all storm drain inlets and streams located near the construction site to prevent sediment-laden water from entering the storm drain system.
- ❑ Limit access to and from the site. Stabilize construction entrances/exits to minimize the track out of dirt and mud onto adjacent streets. Conduct frequent street sweeping.
- ❑ Protect stockpiles and construction materials from winds and rain by storing them under a roof, secured impermeable tarp or plastic sheeting.
- ❑ Avoid storing or stockpiling materials near storm drain inlets, gullies or streams.
- ❑ Phase grading operations to limit disturbed areas and duration of exposure.
- ❑ Perform major maintenance and repairs of vehicles and equipment offsite.
- ❑ Wash out concrete mixers only in designated washout areas at the construction site.
- ❑ Set-up and operate small concrete mixers on tarps or heavy plastic drop cloths.
- ❑ Keep construction sites clean by removing trash, debris, wastes, etc. on a regular basis.
- ❑ Clean-up spills immediately using dry clean-up methods (e.g., absorbent materials such as cat litter, sand or rags for liquid spills; sweeping for dry spills such as cement, mortar or fertilizer) and by removing the contaminated soil from spills on dirt areas. .
- ❑ Prevent erosion by implementing any or a combination of soil stabilization practices such as mulching, surface roughening, permanent or temporary seeding.
- ❑ Maintain all vehicles and equipment in good working condition. Inspect frequently for leaks, and repair promptly.
- ❑ Practice proper waste disposal. Many construction materials and wastes, including solvents, water-based paint, vehicle fluids, broken asphalt and concrete, wood, and cleared vegetation can be recycled. Materials that cannot be recycled must be taken to an appropriate landfill or disposed of as hazardous waste.
- ❑ Cover open dumpsters with secured tarps or plastic sheeting. Never clean out a dumpster by washing it down on the construction site.
- ❑ Arrange for an adequate debris disposal schedule to insure that dumpsters do not overflow.

General Construction Activities Stormwater Permit

(Construction Activities General Permit)

The State Water Resources Control Board (SWRCB) adopted a new Construction Activities General Permit (WQ Order No. 99-08DWQ) on August 19, 1999, superseding the now expired SWRCB statewide General Permit (WQ Order No. 92-08DWQ). This permit is administered and enforced by the SWRCB and the local Regional Water Quality Control Boards (RWQCB). The updated Construction Activities General Permit establishes a number of new stormwater management requirements for construction site operator.

NOTE: *Some construction activies stormwater permits are issued on a regional basis. Consult your local RWQCB to find out if your project requires coverage under any of these permits.*

Frequently Asked Questions:

Does my construction site require coverage under the Construction Activities General Permit?

Yes, if construction activity results in the disturbance of five or more acres of total land area or is part of a common plan of development that results in the disturbance of five or more acres.

How do I obtain coverage under the Construction Activities General Permit?

Obtain the permit package and submit the completed Notice of Intent (NOI) form to the SWRCB prior to grading or disturbing soil at the construction site. For ongoing construction activity involving a change of ownership, the new owner must submit a new NOI within 30 days of the date of change of ownership. The completed NOI along with the required fee should be mailed to the SWRCB.

What must I do to comply with the requirements of the Construction Activities General Permit?

- Implement BMPs for non-stormwater discharges year-round.
- Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) prior to commencing construction activities.
- Keep a copy of the SWPPP at the construction site for the entire duration of the project.
- Calculate the anticipated stormwater run-off.
- Implement an effective combination of erosion and sediment control on all soil disturbed areas.
- Conduct site inspections prior to anticipated storm events, every 24-hours during extended storm events, and after actual storm event.
- Perform repair and maintenance of BMPs as soon as possible after storm events depending upon worker safety.
- Update the SWPPP as needed, to manage pollutants or reflect changes in site conditions.
- Include description of post construction BMPs at the construction site, including parties responsible for long-term maintenance.

NOTE: *Please refer to the Construction Activities General Permit for detailed information. You may contact the SWRCB, your local RWQCB, or visit the SWRCB website at www.swrcb.ca.gov/stormwtr/ to obtain a State Construction Activities Stormwater General Permit packet.*

How long is this Construction Activities General Permit in effect?

The Permit coverage stays in effect untilyou submit a Notice of Termination (NOT) to the SWRCB. For the purpose of submitting a NOT, all soil disturbing activities have to be completed and one of the three following criteria has to be met:

1. Change of ownership;
2. A uniform vegetative cover with 70 percent coverage has been established; or,
3. Equivalent stabilization measures such as the use of reinforced channel liners, soil cement, fiber matrices, geotextiles, etc., have been employed.

For Information:

For more information on the General Industrial Storm Water Permit contact:

State Water Resources Control Board (SWRCB)
(916) 657-1146 or www.swrcb.ca.gov/ or, at your Regional Water Quality Control Board (RWQCB).

Santa Ana Region (8)
California Tower
3737 Main Street, Ste. 500
Riverside, CA 92501-3339
(909) 782-4130

San Diego Region (9)
9771 Clairemont Mesa Blvd., Ste. A
San Diego, CA 92124
(619) 467-2952

Colorado River Basin Region (7)
73-720 Fred Waring Dr., Ste. 100
Palm Desert, CA 92260
(760) 346-7491

SPILL RESPONSE AGENCY:
HAZ-MAT: (909) 358-5055
HAZARDOUS WASTE DISPOSAL: (909) 358-5055
RECYCLING INFORMATION: 1-800-366-SAVE
TO REPORT ILLEGAL DUMPING OR A CLOGGED STORM DRAIN: 1-800-506-2555

To order additional brochures or to obtain information on other pollution prevention activities, call:
(909) 955-1111.

StormWater CleanWater
PROTECTION PROGRAM

Riverside County gratefully acknowledges the State Water Quality Control Board and the American Public Works Association, Storm Water Quality Task Force for the information provided in this brochure.

DID YOU KNOW . . .

YOUR FACILITY MAY NEED A STORM WATER PERMIT?

Many industrial facilities and manufacturing operations must obtain coverage under the Industrial Activities Storm Water General Permit

FIND OUT
IF YOUR FACILITY MUST OBTAIN A PERMIT

StormWater Pollution . . . What you should know

Riverside County has two drainage systems - sanitary sewers and storm drains. The storm drain system is designed to help prevent flooding by carrying excess rainwater away from streets. Since the storm drain system does not provide for water treatment, it also serves the *unintended* function of transporting pollutants directly to our waterways.

Unlike sanitary sewers, storm drains are not connected to a treatment plant - they flow directly to our local streams, rivers and lakes.

In recent years, awareness of the need to protect water quality has increased. As a result, federal, state, and local programs have been established to reduce polluted stormwater discharges to our waterways. The emphasis of these programs is to prevent stormwater pollution since it's much easier, and less costly, than cleaning up "after the fact."

National Pollutant Discharge Elimination System (NPDES)

In 1987, the Federal Clean Water Act was amended to establish a framework for regulating industrial stormwater discharges under the NPDES permit program. In California, NPDES permits are issued by the State Water Resources Control Board (SWRCB) and the nine (9) Regional Water Quality Control Boards (RWQCB). In general, certain industrial facilities and manufacturing operations must obtain coverage under the Industrial Activities Storm Water General Permit if the type of facilities or operations falls into one of the several categories described in this brochure.

How Do I Know If I Need A Permit?

Following are ***general descriptions*** of the industry categories types that are regulated by the Industrial Activities Storm Water General Permit. Contact your local Region Water Quality Control Board to determine if your facility/operation requires coverage under the Permit.

➜ Facilities such as cement manufacturing; feedlots; fertilizer manufacturing; petroleum refining; phosphate manufacturing; steam electric power generation; coal mining; mineral mining and processing; ore mining and dressing; and asphalt emulsion;

➜ Facilities classified as lumber and wood products (except wood kitchen cabinets); pulp, paper, and paperboard mills; chemical producers (except some pharmaceutical and biological products); petroleum and coal products; leather production and products; stone, clay and glass products; primary metal industries; fabricated structural metal; ship and boat building and repairing;

➜ Active or inactive mining operations and oil and gas exploration, production, processing, or treatment operations;

➜ Hazardous waste treatment, storage, or disposal facilities;

➜ Landfills, land application sites and open dumps that receive or have received any industrial waste; unless there is a new overlying land use such as a golf course, park, etc., and there is no discharge associated with the landfill;

➜ Facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards;

➜ Steam electric power generating facilities, facilities that generate steam for electric power by combustion;

➜ Transportation facilities that have vehicle maintenance shops, fueling facilities, equipment cleaning operations, or airport deicing operations. This includes school bus maintenance facilities operated by a school district;

➜ Sewage treatment facilities;

➜ Facilities that have areas where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water.

How do I obtain coverage under the Industrial Activities Storm Water General Permit?

Obtain a permit application package from your local Regional Water Quality Control Board listed on the back of this brochure or the State Water Resources Control Board (SWRCB). Submit a completed Notice of Intent (NOI) form, site map and the appropriate fee ($250 or $500) to the SWRCB. Facilities must submit an NOI thirty (30) days prior to beginning operation. Once you submit the NOI, the State Board will send you a letter acknowledging receipt of your NOI and will assign your facility a waste discharge identification number (WDID No.). You will also receive an annual fee billing. These billings should roughly coincide with the date the State Board processed your original NOI submittal.

What are the requirements of the Industrial Activities Storm Water General Permit?

The basic requirements of the Permit are:

1. The facility must eliminate any non-stormwater discharges or obtain a separate permit for such discharges.

2. The facility must develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must identify sources of pollutants that may be exposed to stormwater. Once the sources of pollutants have been identified, the facility operator must develop and implement Best Management Practices (BMPs) to minimize or prevent polluted runoff.

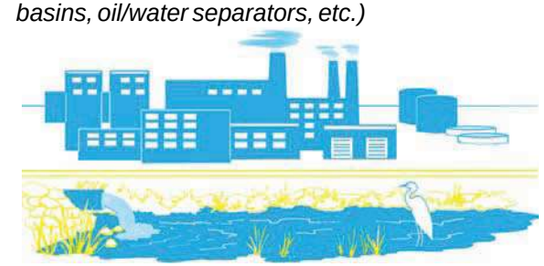
   Guidance in preparing a SWPPP is available from a document prepared by the California Storm Water Quality Task Force called the California Storm Water Best Management Practice Handbook.

3. The facility must develop and implement a Monitoring Program that includes conducting visual observations and collecting samples of the facility's storm water discharges associated with industrial activity. The General Permit requires that the analysis be conducted by a laboratory that is certified by the State of California.

4. The facility must submit to the Regional Board, every July 1, an annual report that includes the results of its monitoring program.

A Non-Storm Water Discharge is... *any discharge to a storm drain system that is not composed entirely of storm water. The following non-storm water discharges are authorized by the General Permit: fire hydrant flushing; potable water sources, including potable water related to the operation, maintenance, or testing of potable water systems; drinking fountain water; atmospheric condensates including refrigeration, air conditioning, and compressor condensate; irrigation drainage; landscape watering; springs; non-contaminated ground water; foundation or footing drainage; and sea water infiltration where the sea waters are discharged back into the sea water source.*

A BMP is . . . *a technique, process, activity, or structure used to reduce the pollutant content of a storm water discharge. BMPs may include simple, non-structural methods such as good housekeeping, staff training and preventive maintenance. Additionally, BMPs may include structural modifications such as the installation of berms, canopies or treatment control (e.g. setting basins, oil/water separators, etc.)*



WARNING*: There are significant penalties for non-compliance: a minimum fine of $5,000 for failing to obtain permit coverage, and, up to $10,000 per day, per violation plus $10 per gallon of discharge in excess of 1,000 gallons.*

Outdoor Loading/Unloading SC-30

Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Description

The loading/unloading of materials usually takes place outside on docks or terminals; therefore, materials spilled, leaked, or lost during loading/unloading may collect in the soil or on other surfaces and have the potential to be carried away by stormwater runoff or when the area is cleaned. Additionally, rainfall may wash pollutants from machinery used to unload or move materials. Implementation of the following protocols will prevent or reduce the discharge of pollutants to stormwater from outdoor loading/unloading of materials.

Targeted Constituents

Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

Pollution Prevention

- Keep accurate maintenance logs to evaluate materials removed and improvements made.
- Park tank trucks or delivery vehicles in designated areas so that spills or leaks can be contained.
- Limit exposure of material to rainfall whenever possible.
- Prevent stormwater run-on.
- Check equipment regularly for leaks.

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Suggested Protocols

Loading and Unloading – General Guidelines

- Develop an operations plan that describes procedures for loading and/or unloading.
- Conduct loading and unloading in dry weather if possible.
- Cover designated loading/unloading areas to reduce exposure of materials to rain.
- Consider placing a seal or door skirt between delivery vehicles and building to prevent exposure to rain.
- Design loading/unloading area to prevent stormwater run-on, which would include grading or berming the area, and position roof downspouts so they direct stormwater away from the loading/unloading areas.
- Have employees load and unload all materials and equipment in covered areas such as building overhangs at loading docks if feasible.
- Load/unload only at designated loading areas.
- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip collected materials must be disposed of properly.
- Pave loading areas with concrete instead of asphalt.
- Avoid placing storm drains in the area.
- Grade and/or berm the loading/unloading area to a drain that is connected to a deadend.

Inspection

- Check loading and unloading equipment regularly for leaks, including valves, pumps, flanges and connections.
- Look for dust or fumes during loading or unloading operations.

Training

- Train employees (e.g., fork lift operators) and contractors on proper spill containment and cleanup.
- Have employees trained in spill containment and cleanup present during loading/unloading.
- Train employees in proper handling techniques during liquid transfers to avoid spills.
- Make sure forklift operators are properly trained on loading and unloading procedures.

Spill Response and Prevention

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Contain leaks during transfer.
- Store and maintain appropriate spill cleanup materials in a location that is readily accessible and known to all and ensure that employees are familiar with the site's spill control plan and proper spill cleanup procedures.
- Have an emergency spill cleanup plan readily available.
- Use drip pans or comparable devices when transferring oils, solvents, and paints.

Other Considerations (Limitations and Regulations)

- Space and time limitations may preclude all transfers from being performed indoors or under cover.
- It may not be possible to conduct transfers only during dry weather.

Requirements

Costs

Costs should be low except when covering a large loading/unloading area.

Maintenance

- Conduct regular inspections and make repairs as necessary. The frequency of repairs will depend on the age of the facility.
- Check loading and unloading equipment regularly for leaks.
- Conduct regular broom dry-sweeping of area.

Supplemental Information

Further Detail of the BMP

Special Circumstances for Indoor Loading/Unloading of Materials

Loading or unloading of liquids should occur in the manufacturing building so that any spills that are not completely retained can be discharged to the sanitary sewer, treatment plant, or treated in a manner consistent with local sewer authorities and permit requirements.

- For loading and unloading tank trucks to above and below ground storage tanks, the following procedures should be used:
  - The area where the transfer takes place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - The transfer area should be designed to prevent run-on of stormwater from adjacent areas. Sloping the pad and using a curb, like a speed bump, around the uphill side of the transfer area should reduce run-on.

- The transfer area should be designed to prevent runoff of spilled liquids from the area. Sloping the area to a drain should prevent runoff. The drain should be connected to a dead-end sump or to the sanitary sewer. A positive control valve should be installed on the drain.

- For transfer from rail cars to storage tanks that must occur outside, use the following procedures:
  - Drip pans should be placed at locations where spillage may occur, such as hose connections, hose reels, and filler nozzles. Use drip pans when making and breaking connections.
  - Drip pan systems should be installed between the rails to collect spillage from tank cars.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net/

Building & Grounds Maintenance SC-41

Objectives

- Cover
- Contain
- Educate
- Reduce/Minimize
- Product Substitution

Targeted Constituents

Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

Pollution Prevention

- Switch to non-toxic chemicals for maintenance when possible.
- Choose cleaning agents that can be recycled.
- Encourage proper lawn management and landscaping, including use of native vegetation.

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- Encourage use of Integrated Pest Management techniques for pest control.
- Encourage proper onsite recycling of yard trimmings.
- Recycle residual paints, solvents, lumber, and other material as much as possible.

Suggested Protocols

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.
- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.
- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures on exposed soils.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.
- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.
- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.
- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.
- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.
- Dispose of empty pesticide containers according to the instructions on the container label.

- Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Training

- Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Be sure the frequency of training takes into account the complexity of the operations and the nature of the staff.

Spill Response and Prevention

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- Clean up spills immediately.

Other Considerations

Alternative pest/weed controls may not be available, suitable, or effective in many cases.

Requirements

Costs

- Cost will vary depending on the type and size of facility.
- Overall costs should be low in comparison to other BMPs.

Maintenance

Sweep paved areas regularly to collect loose particles. Wipe up spills with rags and other absorbent material immediately, do not hose down the area to a storm drain.

Supplemental Information

Further Detail of the BMP

Fire Sprinkler Line Flushing

Building fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

California's Nonpoint Source Program Plan http://www.swrcb.ca.gov/nps/index.html

Clark County Storm Water Pollution Control Manual
http://www.co.clark.wa.us/pubworks/bmpman.pdf

King County Storm Water Pollution Control Manual http://dnr.metrokc.gov/wlr/dss/spcm.htm

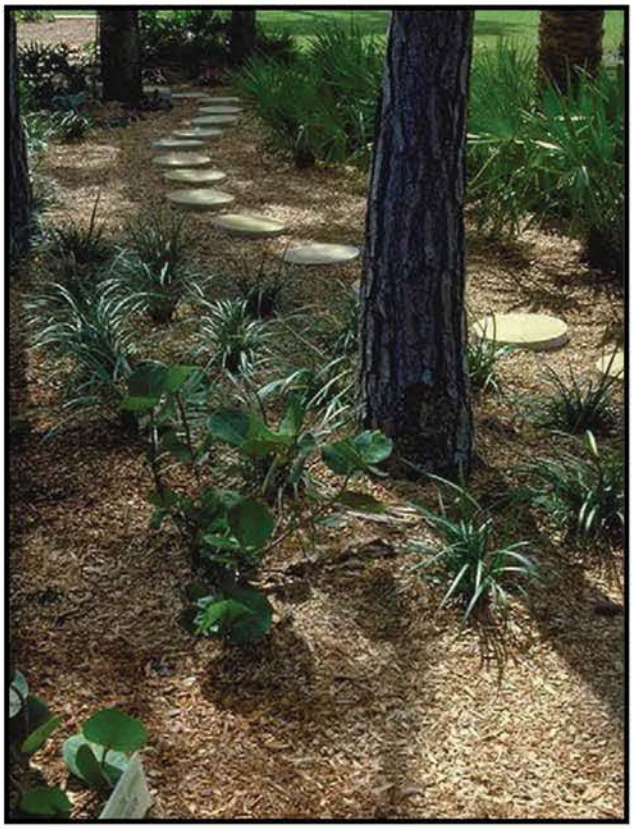
Mobile Cleaners Pilot Program: Final Report. 1997. Bay Area Stormwater Management Agencies Association (BASMAA). http://www.basmaa.org/

Pollution from Surface Cleaning Folder. 1996. Bay Area Stormwater Management Agencies Association (BASMAA). http://www.basmaa.org/

Santa Clara Valley Urban Runoff Pollution Prevention Program http://www.scvurppp.org

The Storm Water Managers Resource Center http://www.stormwatercenter.net/

Site Design & Landscape Planning SD-10



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- ☑ Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Each project site possesses unique topographic, hydrologic, and vegetative features, some of which are more suitable for development than others. Integrating and incorporating appropriate landscape planning methodologies into the project design is the most effective action that can be done to minimize surface and groundwater contamination from stormwater.

Approach

Landscape planning should couple consideration of land suitability for urban uses with consideration of community goals and projected growth. Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for site design and landscapes planning should conform to applicable standards and specifications of agencies with jurisdiction and be consistent with applicable General Plan and Local Area Plan policies.

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Designing New Installations

Begin the development of a plan for the landscape unit with attention to the following general principles:

- Formulate the plan on the basis of clearly articulated community goals. Carefully identify conflicts and choices between retaining and protecting desired resources and community growth.

- Map and assess land suitability for urban uses. Include the following landscape features in the assessment: wooded land, open unwooded land, steep slopes, erosion-prone soils, foundation suitability, soil suitability for waste disposal, aquifers, aquifer recharge areas, wetlands, floodplains, surface waters, agricultural lands, and various categories of urban land use. When appropriate, the assessment can highlight outstanding local or regional resources that the community determines should be protected (e.g., a scenic area, recreational area, threatened species habitat, farmland, fish run). Mapping and assessment should recognize not only these resources but also additional areas needed for their sustenance.

Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Conserve Natural Areas during Landscape Planning

If applicable, the following items are required and must be implemented in the site layout during the subdivision design and approval process, consistent with applicable General Plan and Local Area Plan policies:

- Cluster development on least-sensitive portions of a site while leaving the remaining land in a natural undisturbed condition.

- Limit clearing and grading of native vegetation at a site to the minimum amount needed to build lots, allow access, and provide fire protection.

- Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.

- Promote natural vegetation by using parking lot islands and other landscaped areas.

- Preserve riparian areas and wetlands.

Maximize Natural Water Storage and Infiltration Opportunities Within the Landscape Unit

- Promote the conservation of forest cover. Building on land that is already deforested affects basin hydrology to a lesser extent than converting forested land. Loss of forest cover reduces interception storage, detention in the organic forest floor layer, and water losses by evapotranspiration, resulting in large peak runoff increases and either their negative effects or the expense of countering them with structural solutions.

- Maintain natural storage reservoirs and drainage corridors, including depressions, areas of permeable soils, swales, and intermittent streams. Develop and implement policies and

regulations to discourage the clearing, filling, and channelization of these features. Utilize them in drainage networks in preference to pipes, culverts, and engineered ditches.

- Evaluating infiltration opportunities by referring to the stormwater management manual for the jurisdiction and pay particular attention to the selection criteria for avoiding groundwater contamination, poor soils, and hydrogeological conditions that cause these facilities to fail. If necessary, locate developments with large amounts of impervious surfaces or a potential to produce relatively contaminated runoff away from groundwater recharge areas.

Protection of Slopes and Channels during Landscape Design

- Convey runoff safely from the tops of slopes.
- Avoid disturbing steep or unstable slopes.
- Avoid disturbing natural channels.
- Stabilize disturbed slopes as quickly as possible.
- Vegetate slopes with native or drought tolerant vegetation.
- Control and treat flows in landscaping and/or other controls prior to reaching existing natural drainage systems.
- Stabilize temporary and permanent channel crossings as quickly as possible, and ensure that increases in run-off velocity and frequency caused by the project do not erode the channel.
- Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion. Energy dissipaters shall be installed in such a way as to minimize impacts to receiving waters.
- Line on-site conveyance channels where appropriate, to reduce erosion caused by increased flow velocity due to increases in tributary impervious area. The first choice for linings should be grass or some other vegetative surface, since these materials not only reduce runoff velocities, but also provide water quality benefits from filtration and infiltration. If velocities in the channel are high enough to erode grass or other vegetative linings, riprap, concrete, soil cement, or geo-grid stabilization are other alternatives.
- Consider other design principles that are comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Redevelopment may present significant opportunity to add features which had not previously been implemented. Examples include incorporation of depressions, areas of permeable soils, and swales in newly redeveloped areas. While some site constraints may exist due to the status of already existing infrastructure, opportunities should not be missed to maximize infiltration, slow runoff, reduce impervious areas, disconnect directly connected impervious areas.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Stormwater Management Manual for Western Washington, Washington State Department of Ecology, August 2001.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Roof Runoff Controls SD-11

Rain Garden

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Various roof runoff controls are available to address stormwater that drains off rooftops. The objective is to reduce the total volume and rate of runoff from individual lots, and retain the pollutants on site that may be picked up from roofing materials and atmospheric deposition. Roof runoff controls consist of directing the roof runoff away from paved areas and mitigating flow to the storm drain system through one of several general approaches: cisterns or rain barrels; dry wells or infiltration trenches; pop-up emitters, and foundation planting. The first three approaches require the roof runoff to be contained in a gutter and downspout system. Foundation planting provides a vegetated strip under the drip line of the roof.

Approach

Design of individual lots for single-family homes as well as lots for higher density residential and commercial structures should consider site design provisions for containing and infiltrating roof runoff or directing roof runoff to vegetative swales or buffer areas. Retained water can be reused for watering gardens, lawns, and trees. Benefits to the environment include reduced demand for potable water used for irrigation, improved stormwater quality, increased groundwater recharge, decreased runoff volume and peak flows, and decreased flooding potential.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Designing New Installations

Cisterns or Rain Barrels

One method of addressing roof runoff is to direct roof downspouts to cisterns or rain barrels. A cistern is an above ground storage vessel with either a manually operated valve or a permanently open outlet. Roof runoff is temporarily stored and then released for irrigation or infiltration between storms. The number of rain

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barrels needed is a function of the rooftop area. Some low impact developers recommend that every house have at least 2 rain barrels, with a minimum storage capacity of 1000 liters. Roof barrels serve several purposes including mitigating the first flush from the roof which has a high volume, amount of contaminants, and thermal load. Several types of rain barrels are commercially available. Consideration must be given to selecting rain barrels that are vector proof and childproof. In addition, some barrels are designed with a bypass valve that filters out grit and other contaminants and routes overflow to a soak-away pit or rain garden.

If the cistern has an operable valve, the valve can be closed to store stormwater for irrigation or infiltration between storms. This system requires continual monitoring by the resident or grounds crews, but provides greater flexibility in water storage and metering. If a cistern is provided with an operable valve and water is stored inside for long periods, the cistern must be covered to prevent mosquitoes from breeding.

A cistern system with a permanently open outlet can also provide for metering stormwater runoff. If the cistern outlet is significantly smaller than the size of the downspout inlet (say ¼ to ½ inch diameter), runoff will build up inside the cistern during storms, and will empty out slowly after peak intensities subside. This is a feasible way to mitigate the peak flow increases caused by rooftop impervious land coverage, especially for the frequent, small storms.

Dry wells and Infiltration Trenches

Roof downspouts can be directed to dry wells or infiltration trenches. A dry well is constructed by excavating a hole in the ground and filling it with an open graded aggregate, and allowing the water to fill the dry well and infiltrate after the storm event. An underground connection from the downspout conveys water into the dry well, allowing it to be stored in the voids. To minimize sedimentation from lateral soil movement, the sides and top of the stone storage matrix can be wrapped in a permeable filter fabric, though the bottom may remain open. A perforated observation pipe can be inserted vertically into the dry well to allow for inspection and maintenance.

In practice, dry wells receiving runoff from single roof downspouts have been successful over long periods because they contain very little sediment. They must be sized according to the amount of rooftop runoff received, but are typically 4 to 5 feet square, and 2 to 3 feet deep, with a minimum of 1-foot soil cover over the top (maximum depth of 10 feet).

To protect the foundation, dry wells must be set away from the building at least 10 feet. They must be installed in solids that accommodate infiltration. In poorly drained soils, dry wells have very limited feasibility.

Infiltration trenches function in a similar manner and would be particularly effective for larger roof areas. An infiltration trench is a long, narrow, rock-filled trench with no outlet that receives stormwater runoff. These are described under Treatment Controls.

Pop-up Drainage Emitter

Roof downspouts can be directed to an underground pipe that daylights some distance from the building foundation, releasing the roof runoff through a pop-up emitter. Similar to a pop-up irrigation head, the emitter only opens when there is flow from the roof. The emitter remains flush to the ground during dry periods, for ease of lawn or landscape maintenance.

Foundation Planting

Landscape planting can be provided around the base to allow increased opportunities for stormwater infiltration and protect the soil from erosion caused by concentrated sheet flow coming off the roof. Foundation plantings can reduce the physical impact of water on the soil and provide a subsurface matrix of roots that encourage infiltration. These plantings must be sturdy enough to tolerate the heavy runoff sheet flows, and periodic soil saturation.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Supplemental Information

Examples

- City of Ottawa's Water Links Surface –Water Quality Protection Program
- City of Toronto Downspout Disconnection Program
- City of Boston, MA, Rain Barrel Demonstration Program

Other Resources

Hager, Marty Catherine, Stormwater, "Low-Impact Development", January/February 2003. www.stormh2o.com

Low Impact Urban Design Tools, Low Impact Development Design Center, Beltsville, MD. www.lid-stormwater.net

Start at the Source, Bay Area Stormwater Management Agencies Association, 1999 Edition

Efficient Irrigation SD-12

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

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- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Storm Drain Signage SD-13

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include "NO DUMPING

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– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.

- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Maintenance Bays & Docks SD-31

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

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- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.

- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.

- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.

- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

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- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

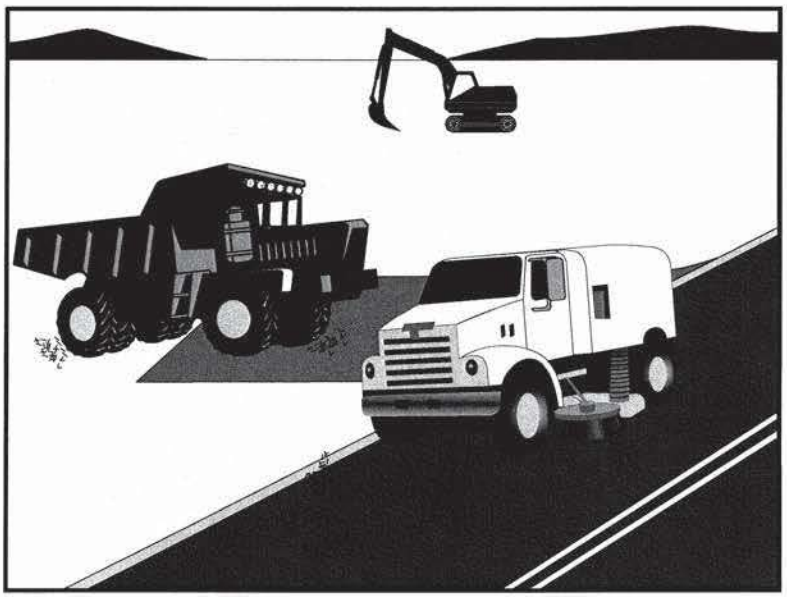
A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Street Sweeping and Vacuuming SE-7



Categories		
EC	Erosion Control	
SE	Sediment Control	☒
TC	Tracking Control	☑
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents	
Sediment	☑
Nutrients	
Trash	☑
Metals	
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

Description and Purpose

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways, and to clean paved surfaces in preparation for final paving. Sweeping and vacuuming prevents sediment from the project site from entering storm drains or receiving waters.

Suitable Applications

Sweeping and vacuuming are suitable anywhere sediment is tracked from the project site onto public or private paved streets and roads, typically at points of egress. Sweeping and vacuuming are also applicable during preparation of paved surfaces for final paving.

Limitations

Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).

Implementation

- Controlling the number of points where vehicles can leave the site will allow sweeping and vacuuming efforts to be focused, and perhaps save money.
- Inspect potential sediment tracking locations daily.
- Visible sediment tracking should be swept or vacuumed on a daily basis.
- Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.

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- If not mixed with debris or trash, consider incorporating the removed sediment back into the project

Costs

Rental rates for self-propelled sweepers vary depending on hopper size and duration of rental. Expect rental rates from $58/hour (3 yd^3 hopper) to $88/hour (9 yd^3 hopper), plus operator costs. Hourly production rates vary with the amount of area to be swept and amount of sediment. Match the hopper size to the area and expect sediment load to minimize time spent dumping.

Inspection and Maintenance

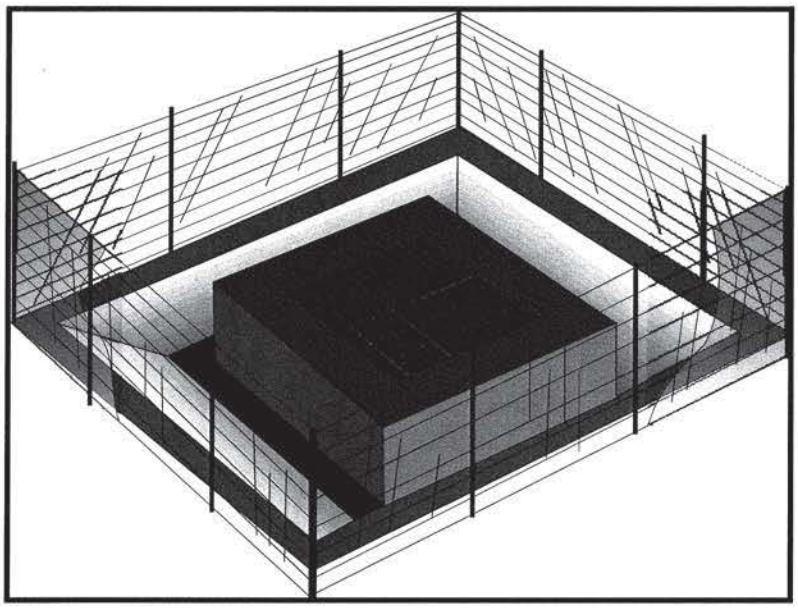
- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- When actively in use, points of ingress and egress must be inspected daily.
- When tracked or spilled sediment is observed outside the construction limits, it must be removed at least daily. More frequent removal, even continuous removal, may be required in some jurisdictions.
- Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
- Adjust brooms frequently; maximize efficiency of sweeping operations.
- After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Labor Surcharge and Equipment Rental Rates, State of California Department of Transportation (Caltrans), April 1, 2002 – March 31, 2003.

Storm Drain Inlet Protection SE-10



Categories

EC	Erosion Control	
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	☒
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-1 Silt Fence

SE-5 Fiber Rolls

SE-6 Gravel Bag Berm

SE-8 Sandbag Barrier

SE-14 Biofilter Bags

Description and Purpose

Storm drain inlet protection consists of a sediment filter or an impounding area in, around or upstream of a storm drain, drop inlet, or curb inlet. Storm drain inlet protection measures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Some filter configurations also remove sediment by filtering, but usually the ponding action results in the greatest sediment reduction. Temporary geotextile storm drain inserts attach underneath storm drain grates to capture and filter storm water.

Suitable Applications

Every storm drain inlet receiving runoff from unstabilized or otherwise active work areas should be protected. Inlet protection should be used in conjunction with other erosion and sediment controls to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

Limitations

- Drainage area should not exceed 1 acre.
- In general straw bales should not be used as inlet protection.
- Requires an adequate area for water to pond without encroaching into portions of the roadway subject to traffic.

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- Sediment removal may be inadequate to prevent sediment discharges in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other onsite sediment trapping techniques in conjunction with inlet protection.
- Frequent maintenance is required.
- Limit drainage area to 1 acre maximum. For drainage areas larger than 1 acre, runoff should be routed to a sediment-trapping device designed for larger flows. See BMPs SE-2, Sediment Basin, and SE-3, Sediment Traps.
- Excavated drop inlet sediment traps are appropriate where relatively heavy flows are expected, and overflow capability is needed.

Implementation

General

Inlet control measures presented in this handbook should not be used for inlets draining more than one acre. Runoff from larger disturbed areas should be first routed through SE-2, Sediment Basin or SE-3, Sediment Trap and/or used in conjunction with other drainage control, erosion control, and sediment control BMPs to protect the site. Different types of inlet protection are appropriate for different applications depending on site conditions and the type of inlet. Alternative methods are available in addition to the methods described/shown herein such as prefabricated inlet insert devices, or gutter protection devices.

Design and Layout

Identify existing and planned storm drain inlets that have the potential to receive sediment-laden surface runoff. Determine if storm drain inlet protection is needed and which method to use.

- The key to successful and safe use of storm drain inlet protection devices is to know where runoff that is directed toward the inlet to be protected will pond or be diverted as a result of installing the protection device.
  - Determine the acceptable location and extent of ponding in the vicinity of the drain inlet. The acceptable location and extent of ponding will influence the type and design of the storm drain inlet protection device.
  - Determine the extent of potential runoff diversion caused by the storm drain inlet protection device. Runoff ponded by inlet protection devices may flow around the device and towards the next downstream inlet. In some cases, this is acceptable; in other cases, serious erosion or downstream property damage can be caused by these diversions. The possibility of runoff diversions will influence whether or not storm drain inlet protection is suitable; and, if suitable, the type and design of the device.
- The location and extent of ponding, and the extent of diversion, can usually be controlled through appropriate placement of the inlet protection device. In some cases, moving the inlet protection device a short distance upstream of the actual inlet can provide more efficient sediment control, limit ponding to desired areas, and prevent or control diversions.

- Six types of inlet protection are presented below. However, it is recognized that other effective methods and proprietary devices exist and may be selected.
  - Silt Fence: Appropriate for drainage basins with less than a 5% slope, sheet flows, and flows under 0.5 cfs.
  - Excavated Drop Inlet Sediment Trap: An excavated area around the inlet to trap sediment (SE-3).
  - Gravel bag barrier: Used to create a small sediment trap upstream of inlets on sloped, paved streets. Appropriate for sheet flow or when concentrated flow may exceed 0.5 cfs, and where overtopping is required to prevent flooding.
  - Block and Gravel Filter: Appropriate for flows greater than 0.5 cfs.
  - Temporary Geotextile Storm drain Inserts: Different products provide different features. Refer to manufacturer details for targeted pollutants and additional features.
  - Biofilter Bag Barrier: Used to create a small retention area upstream of inlets and can be located on pavement or soil. Biofilter bags slowly filter runoff allowing sediment to settle out. Appropriate for flows under 0.5 cfs.
- Select the appropriate type of inlet protection and design as referred to or as described in this fact sheet.
- Provide area around the inlet for water to pond without flooding structures and property.
- Grates and spaces around all inlets should be sealed to prevent seepage of sediment-laden water.
- Excavate sediment sumps (where needed) 1 to 2 ft with 2:1 side slopes around the inlet.

Installation

- ***DI Protection Type 1 - Silt Fence*** - Similar to constructing a silt fence; see BMP SE-1, Silt Fence. Do not place fabric underneath the inlet grate since the collected sediment may fall into the drain inlet when the fabric is removed or replaced and water flow through the grate will be blocked resulting in flooding. See typical Type 1 installation details at the end of this fact sheet.
  1. Excavate a trench approximately 6 in. wide and 6 in. deep along the line of the silt fence inlet protection device.
  2. Place 2 in. by 2 in. wooden stakes around the perimeter of the inlet a maximum of 3 ft apart and drive them at least 18 in. into the ground or 12 in. below the bottom of the trench. The stakes should be at least 48 in.
  3. Lay fabric along bottom of trench, up side of trench, and then up stakes. See SE-1, Silt Fence, for details. The maximum silt fence height around the inlet is 24 in.
  4. Staple the filter fabric (for materials and specifications, see SE-1, Silt Fence) to wooden stakes. Use heavy-duty wire staples at least 1 in. in length.

5. Backfill the trench with gravel or compacted earth all the way around.

- ***DI Protection Type 2 - Excavated Drop Inlet Sediment Trap*** - Install filter fabric fence in accordance with DI Protection Type 1. Size excavated trap to provide a minimum storage capacity calculated at the rate 67 yd^3/acre of drainage area. See typical Type 2 installation details at the end of this fact sheet.

- ***DI Protection Type 3 - Gravel bag*** - Flow from a severe storm should not overtop the curb. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Construct gravel bags in accordance with SE-6, Gravel Bag Berm. Gravel bags should be used due to their high permeability. See typical Type 3 installation details at the end of this fact sheet.

  1. Construct on gently sloping street.

  2. Leave room upstream of barrier for water to pond and sediment to settle.

  3. Place several layers of gravel bags – overlapping the bags and packing them tightly together.

  4. Leave gap of one bag on the top row to serve as a spillway. Flow from a severe storm (e.g., 10 year storm) should not overtop the curb.

- ***DI Protection Type 4 – Block and Gravel Filter*** - Block and gravel filters are suitable for curb inlets commonly used in residential, commercial, and industrial construction. See typical Type 4 installation details at the end of this fact sheet.

  1. Place hardware cloth or comparable wire mesh with 0.5 in. openings over the drop inlet so that the wire extends a minimum of 1 ft beyond each side of the inlet structure. If more than one strip is necessary, overlap the strips. Place woven geotextile over the wire mesh.

  2. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, so that the open ends face outward, not upward. The ends of adjacent blocks should abut. The height of the barrier can be varied, depending on design needs, by stacking combinations of blocks that are 4 in., 8 in., and 12 in. wide. The row of blocks should be at least 12 in. but no greater than 24 in. high.

  3. Place wire mesh over the outside vertical face (open end) of the concrete blocks to prevent stone from being washed through the blocks. Use hardware cloth or comparable wire mesh with 0.5 in. opening.

  4. Pile washed stone against the wire mesh to the top of the blocks. Use 0.75 to 3 in.

- ***DI Protection Type 5 – Temporary Geotextile Insert (proprietary)*** – Many types of temporary inserts are available. Most inserts fit underneath the grate of a drop inlet or inside of a curb inlet and are fastened to the outside of the grate or curb. These inserts are removable and many can be cleaned and reused. Installation of these inserts differs between manufacturers. Please refer to manufacturer instruction for installation of proprietary devices.

- ***DI Protection Type 6 - Biofilter bags*** – Biofilter bags may be used as a substitute for gravel bags in low-flow situations. Biofilter bags should conform to specifications detailed in SE-14, Biofilter bags.

  1. Construct in a gently sloping area.
  2. Biofilter bags should be placed around inlets to intercept runoff flows.
  3. All bag joints should overlap by 6 in.
  4. Leave room upstream for water to pond and for sediment to settle out.
  5. Stake bags to the ground as described in the following detail. Stakes may be omitted if bags are placed on a paved surface.

Costs

- Average annual cost for installation and maintenance of DI Type 1-4 and 6 (one year useful life) is $200 per inlet.
- Temporary geotextile inserts are proprietary and cost varies by region. These inserts can often be reused and may have greater than 1 year of use if maintained and kept undamaged. Average cost per insert ranges from $50-75 plus installation, but costs can exceed $100. This cost does not include maintenance.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Silt Fences. If the fabric becomes clogged, torn, or degrades, it should be replaced. Make sure the stakes are securely driven in the ground and are in good shape (i.e., not bent, cracked, or splintered, and are reasonably perpendicular to the ground). Replace damaged stakes. At a minimum, remove the sediment behind the fabric fence when accumulation reaches one-third the height of the fence or barrier height.
- Gravel Filters. If the gravel becomes clogged with sediment, it should be carefully removed from the inlet and either cleaned or replaced. Since cleaning gravel at a construction site may be difficult, consider using the sediment-laden stone as fill material and put fresh stone around the inlet. Inspect bags for holes, gashes, and snags, and replace bags as needed. Check gravel bags for proper arrangement and displacement.
- Sediment that accumulates in the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Inspect and maintain temporary geotextile insert devices according to manufacturer's specifications.
- Remove storm drain inlet protection once the drainage area is stabilized.

- Clean and regrade area around the inlet and clean the inside of the storm drain inlet, as it should be free of sediment and debris at the time of final inspection.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management Manual for The Puget Sound Basin, Washington State Department of Ecology, Public Review Draft, 1991.

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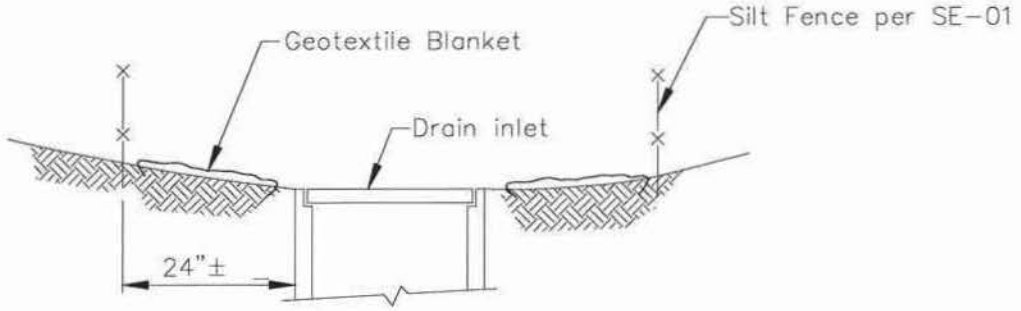
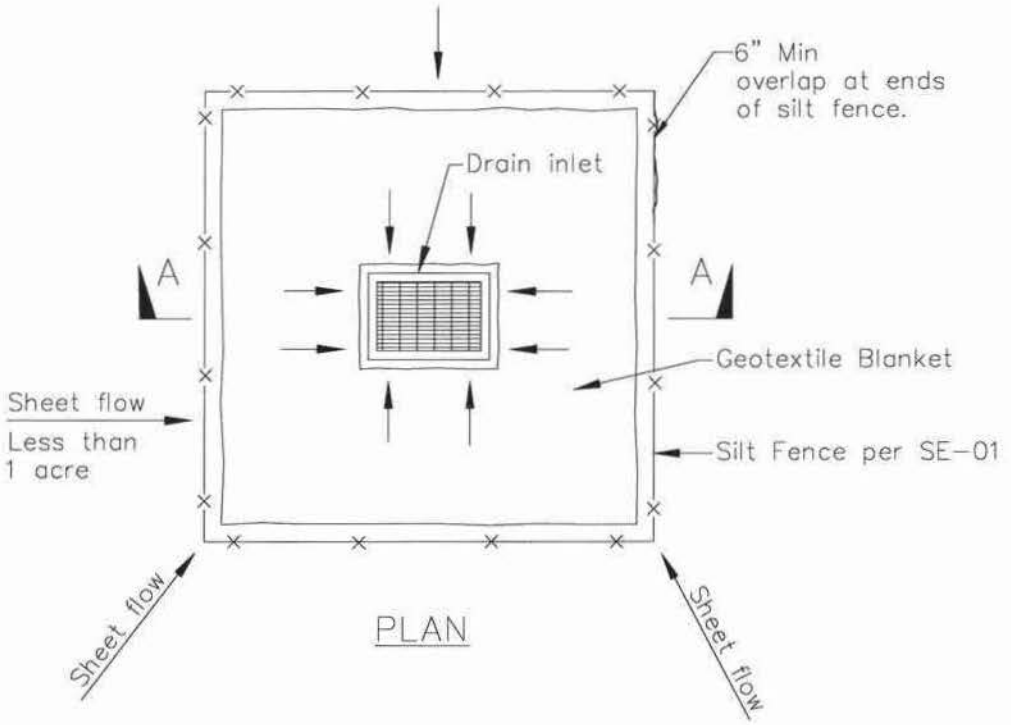


SECTION A–A

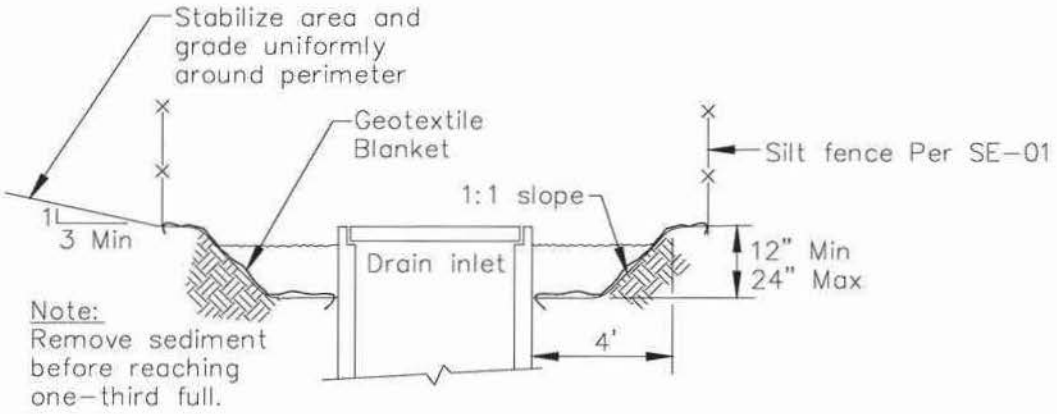


PLAN

DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.



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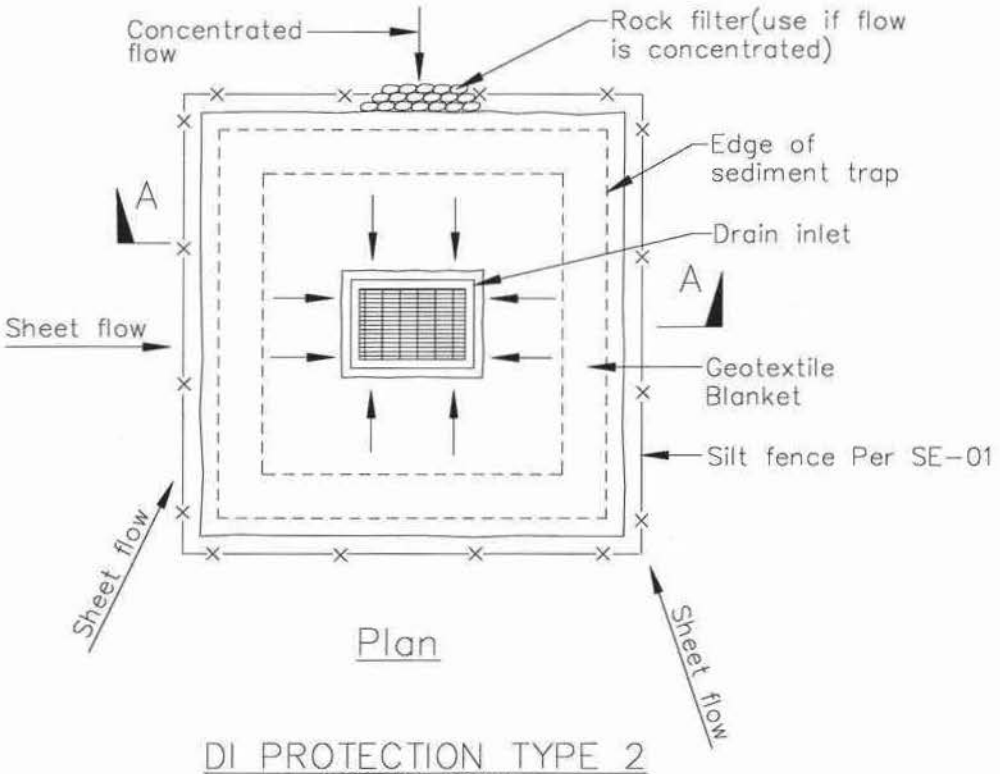
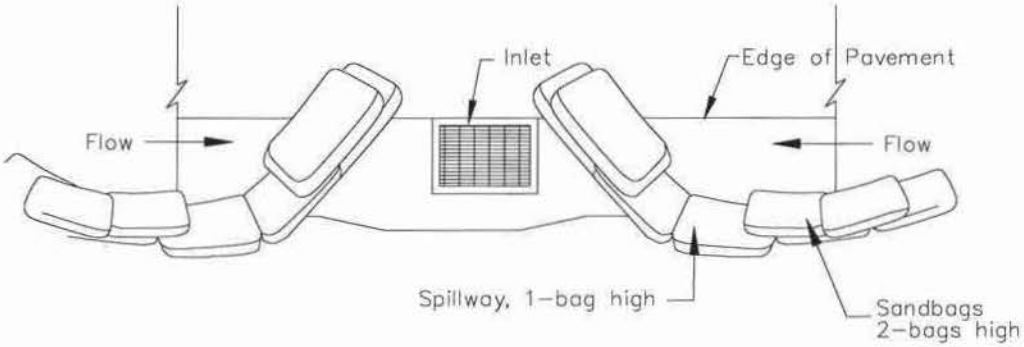


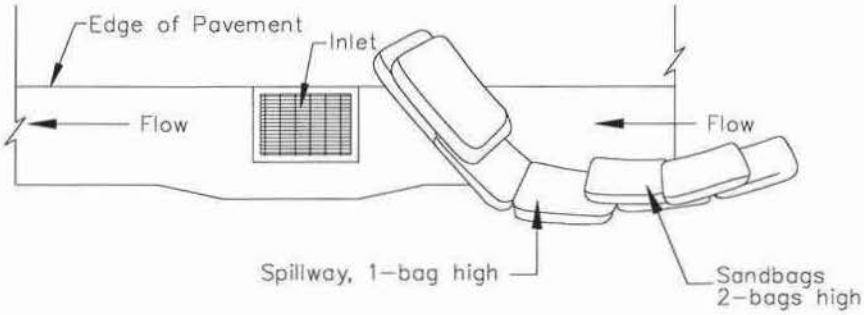
Plan

DI PROTECTION TYPE 2
NOT TO SCALE

Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.



TYPICAL PROTECTION FOR INLET ON SUMP

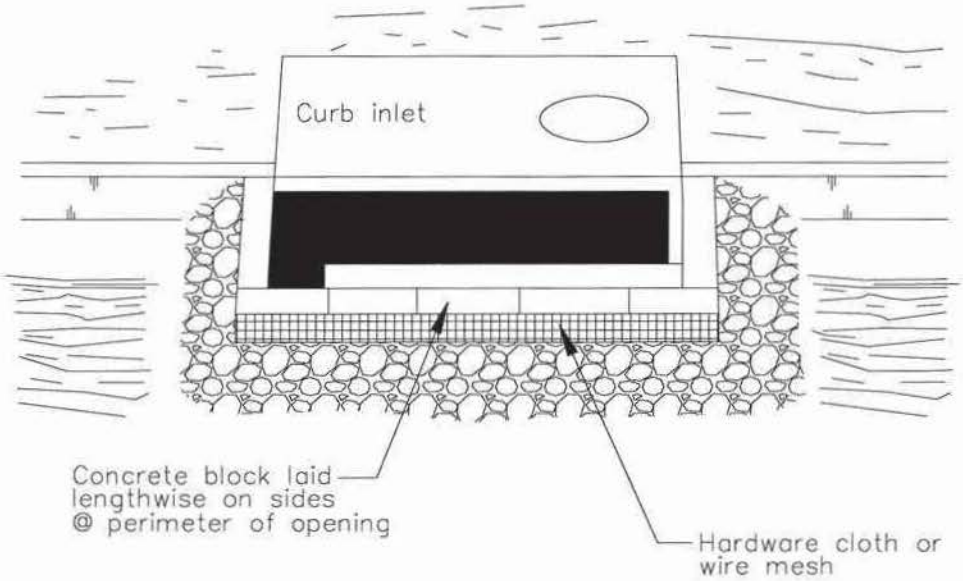


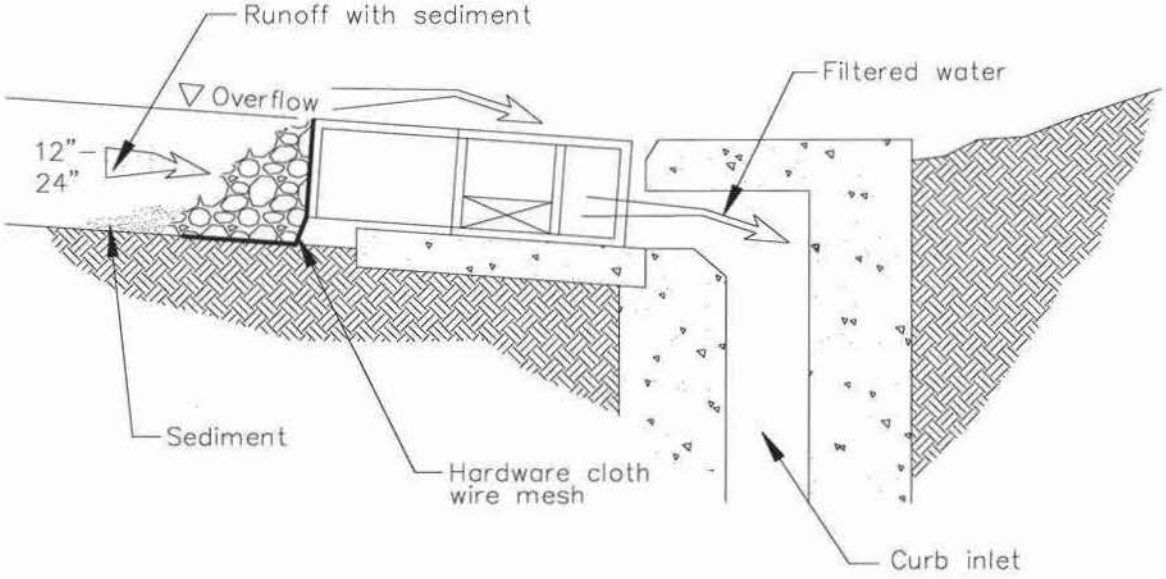
TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:

1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.

DI PROTECTION TYPE 3
NOT TO SCALE





DI PROTECTION – TYPE 4
NOT TO SCALE

Drain Inserts MP-52

Description

Drain inserts are manufactured filters or fabric placed in a drop inlet to remove sediment and debris. There are a multitude of inserts of various shapes and configurations, typically falling into one of three different groups: socks, boxes, and trays. The sock consists of a fabric, usually constructed of polypropylene. The fabric may be attached to a frame or the grate of the inlet holds the sock. Socks are meant for vertical (drop) inlets. Boxes are constructed of plastic or wire mesh. Typically a polypropylene "bag" is placed in the wire mesh box. The bag takes the form of the box. Most box products are one box; that is, the setting area and filtration through media occur in the same box. Some products consist of one or more trays or mesh grates. The trays may hold different types of media. Filtration media vary by manufacturer. Types include polypropylene, porous polymer, treated cellulose, and activated carbon.

California Experience

The number of installations is unknown but likely exceeds a thousand. Some users have reported that these systems require considerable maintenance to prevent plugging and bypass.

Advantages

- Does not require additional space as inserts as the drain inlets are already a component of the standard drainage systems.
- Easy access for inspection and maintenance.
- As there is no standing water, there is little concern for mosquito breeding.
- A relatively inexpensive retrofit option.

Limitations

Performance is likely significantly less than treatment systems that are located at the end of the drainage system such as ponds and vaults. Usually not suitable for large areas or areas with trash or leaves than can plug the insert.

Design and Sizing Guidelines

Refer to manufacturer's guidelines. Drain inserts come any many configurations but can be placed into three general groups: socks, boxes, and trays. The sock consists of a fabric, usually constructed of polypropylene. The fabric may be attached to a frame or the grate of the inlet holds the sock. Socks are meant for vertical (drop) inlets. Boxes are constructed of plastic or wire mesh. Typically a polypropylene "bag" is placed in the wire mesh box. The bag takes the form of the box. Most box products are

Design Considerations

- Use with other BMPs
- Fit and Seal Capacity within Inlet

Targeted Constituents

- ✓ Sediment
- ✓ Nutrients
- ✓ Trash
- ✓ Metals
- Bacteria
- ✓ Oil and Grease
- ✓ Organics

Removal Effectiveness

See New Development and Redevelopment Handbook-Section 5.

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one box; that is, the setting area and filtration through media occurs in the same box. One manufacturer has a double-box. Stormwater enters the first box where setting occurs. The stormwater flows into the second box where the filter media is located. Some products consist of one or more trays or mesh grates. The trays can hold different types of media. Filtration media vary with the manufacturer: types include polypropylene, porous polymer, treated cellulose, and activated carbon.

Construction/Inspection Considerations

Be certain that installation is done in a manner that makes certain that the stormwater enters the unit and does not leak around the perimeter. Leakage between the frame of the insert and the frame of the drain inlet can easily occur with vertical (drop) inlets.

Performance

Few products have performance data collected under field conditions.

Siting Criteria

It is recommended that inserts be used only for retrofit situations or as pretreatment where other treatment BMPs presented in this section area used.

Additional Design Guidelines

Follow guidelines provided by individual manufacturers.

Maintenance

Likely require frequent maintenance, on the order of several times per year.

Cost

- The initial cost of individual inserts ranges from less than $100 to about $2,000. The cost of using multiple units in curb inlet drains varies with the size of the inlet.
- The low cost of inserts may tend to favor the use of these systems over other, more effective treatment BMPs. However, the low cost of each unit may be offset by the number of units that are required, more frequent maintenance, and the shorter structural life (and therefore replacement).

References and Sources of Additional Information

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Larry Walker Associates, June 1998, NDMP Inlet/In-Line Control Measure Study Report

Manufacturers literature

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Woodward Clyde, June 11, 1996, Parking Lot Monitoring Report, Santa Clara Valley Nonpoint Source Pollution Control Program.

Infiltration Basin TC-11

Design Considerations

- Soil for Infiltration
- Slope
- Aesthetics

Targeted Constituents

☑	Sediment	■
☑	Nutrients	■
☑	Trash	■
☑	Metals	■
☑	Bacteria	■
☑	Oil and Grease	■
☑	Organics	■

Legend ***(Removal Effectiveness)***

● Low ■ High

▲ Medium

Description

An infiltration basin is a shallow impoundment that is designed to infiltrate stormwater. Infiltration basins use the natural filtering ability of the soil to remove pollutants in stormwater runoff. Infiltration facilities store runoff until it gradually exfiltrates through the soil and eventually into the water table. This practice has high pollutant removal efficiency and can also help recharge groundwater, thus helping to maintain low flows in stream systems. Infiltration basins can be challenging to apply on many sites, however, because of soils requirements. In addition, some studies have shown relatively high failure rates compared with other management practices.

California Experience

Infiltration basins have a long history of use in California, especially in the Central Valley. Basins located in Fresno were among those initially evaluated in the National Urban Runoff Program and were found to be effective at reducing the volume of runoff, while posing little long-term threat to groundwater quality (EPA, 1983; Schroeder, 1995). Proper siting of these devices is crucial as underscored by the experience of Caltrans in siting two basins in Southern California. The basin with marginal separation from groundwater and soil permeability failed immediately and could never be rehabilitated.

Advantages

- Provides 100% reduction in the load discharged to surface waters.
- The principal benefit of infiltration basins is the approximation of pre-development hydrology during which a

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significant portion of the average annual rainfall runoff is infiltrated and evaporated rather than flushed directly to creeks.

- If the water quality volume is adequately sized, infiltration basins can be useful for providing control of channel forming (erosion) and high frequency (generally less than the 2-year) flood events.

Limitations

- May not be appropriate for industrial sites or locations where spills may occur.
- Infiltration basins require a minimum soil infiltration rate of 0.5 inches/hour, not appropriate at sites with Hydrologic Soil Types C and D.
- If infiltration rates exceed 2.4 inches/hour, then the runoff should be fully treated prior to infiltration to protect groundwater quality.
- Not suitable on fill sites or steep slopes.
- Risk of groundwater contamination in very coarse soils.
- Upstream drainage area must be completely stabilized before construction.
- Difficult to restore functioning of infiltration basins once clogged.

Design and Sizing Guidelines

- Water quality volume determined by local requirements or sized so that 85% of the annual runoff volume is captured.
- Basin sized so that the entire water quality volume is infiltrated within 48 hours.
- Vegetation establishment on the basin floor may help reduce the clogging rate.

Construction/Inspection Considerations

- Before construction begins, stabilize the entire area draining to the facility. If impossible, place a diversion berm around the perimeter of the infiltration site to prevent sediment entrance during construction or remove the top 2 inches of soil after the site is stabililized. Stabilize the entire contributing drainage area, including the side slopes, before allowing any runoff to enter once construction is complete.
- Place excavated material such that it can not be washed back into the basin if a storm occurs during construction of the facility.
- Build the basin without driving heavy equipment over the infiltration surface. Any equipment driven on the surface should have extra-wide ("low pressure") tires. Prior to any construction, rope off the infiltration area to stop entrance by unwanted equipment.
- After final grading, till the infiltration surface deeply.
- Use appropriate erosion control seed mix for the specific project and location.

Performance

As water migrates through porous soil and rock, pollutant attenuation mechanisms include precipitation, sorption, physical filtration, and bacterial degradation. If functioning properly, this approach is presumed to have high removal efficiencies for particulate pollutants and moderate removal of soluble pollutants. Actual pollutant removal in the subsurface would be expected to vary depending upon site-specific soil types. This technology eliminates discharge to surface waters except for the very largest storms; consequently, complete removal of all stormwater constituents can be assumed.

There remain some concerns about the potential for groundwater contamination despite the findings of the NURP and Nightingale (1975; 1987a,b,c; 1989). For instance, a report by Pitt et al. (1994) highlighted the potential for groundwater contamination from intentional and unintentional stormwater infiltration. That report recommends that infiltration facilities not be sited in areas where high concentrations are present or where there is a potential for spills of toxic material. Conversely, Schroeder (1995) reported that there was no evidence of groundwater impacts from an infiltration basin serving a large industrial catchment in Fresno, CA.

Siting Criteria

The key element in siting infiltration basins is identifying sites with appropriate soil and hydrogeologic properties, which is critical for long term performance. In one study conducted in Prince George's County, Maryland (Galli, 1992), all of the infiltration basins investigated clogged within 2 years. It is believed that these failures were for the most part due to allowing infiltration at sites with rates of less than 0.5 in/hr, basing siting on soil type rather than field infiltration tests, and poor construction practices that resulted in soil compaction of the basin invert.

A study of 23 infiltration basins in the Pacific Northwest showed better long-term performance in an area with highly permeable soils (Hilding, 1996). In this study, few of the infiltration basins had failed after 10 years. Consequently, the following guidelines for identifying appropriate soil and subsurface conditions should be rigorously adhered to.

- Determine soil type (consider RCS soil type 'A, B or C' only) from mapping and consult USDA soil survey tables to review other parameters such as the amount of silt and clay, presence of a restrictive layer or seasonal high water table, and estimated permeability. The soil should not have more than 30% clay or more than 40% of clay and silt combined. Eliminate sites that are clearly unsuitable for infiltration.

- Groundwater separation should be at least 3 m from the basin invert to the measured ground water elevation. There is concern at the state and regional levels of the impact on groundwater quality from infiltrated runoff, especially when the separation between groundwater and the surface is small.

- Location away from buildings, slopes and highway pavement (greater than 6 m) and wells and bridge structures (greater than 30 m). Sites constructed of fill, having a base flow or with a slope greater than 15% should not be considered.

- Ensure that adequate head is available to operate flow splitter structures (to allow the basin to be offline) without ponding in the splitter structure or creating backwater upstream of the splitter.

- Base flow should not be present in the tributary watershed.

Secondary Screening Based on Site Geotechnical Investigation

- At least three in-hole conductivity tests shall be performed using USBR 7300-89 or Bouwer-Rice procedures (the latter if groundwater is encountered within the boring), two tests at different locations within the proposed basin and the third down gradient by no more than approximately 10 m. The tests shall measure permeability in the side slopes and the bed within a depth of 3 m of the invert.

- The minimum acceptable hydraulic conductivity as measured in any of the three required test holes is 13 mm/hr. If any test hole shows less than the minimum value, the site should be disqualified from further consideration.

- Exclude from consideration sites constructed in fill or partially in fill unless no silts or clays are present in the soil boring. Fill tends to be compacted, with clays in a dispersed rather than flocculated state, greatly reducing permeability.

- The geotechnical investigation should be such that a good understanding is gained as to how the stormwater runoff will move in the soil (horizontally or vertically) and if there are any geological conditions that could inhibit the movement of water.

Additional Design Guidelines

(1) Basin Sizing - The required water quality volume is determined by local regulations or sufficient to capture 85% of the annual runoff.

(2) Provide pretreatment if sediment loading is a maintenance concern for the basin.

(3) Include energy dissipation in the inlet design for the basins. Avoid designs that include a permanent pool to reduce opportunity for standing water and associated vector problems.

(4) Basin invert area should be determined by the equation:

$$A = \frac{WQV}{kt}$$

where A = Basin invert area (m^2)

WQV = water quality volume (m^3)

k = 0.5 times the lowest field-measured hydraulic conductivity (m/hr)

t = drawdown time (48 hr)

(5) The use of vertical piping, either for distribution or infiltration enhancement shall not be allowed to avoid device classification as a Class V injection well per 40 CFR146.5(e)(4).

Maintenance

Regular maintenance is critical to the successful operation of infiltration basins. Recommended operation and maintenance guidelines include:

- Inspections and maintenance to ensure that water infiltrates into the subsurface completely (recommended infiltration rate of 72 hours or less) and that vegetation is carefully managed to prevent creating mosquito and other vector habitats.
- Observe drain time for the design storm after completion or modification of the facility to confirm that the desired drain time has been obtained.
- Schedule semiannual inspections for beginning and end of the wet season to identify potential problems such as erosion of the basin side slopes and invert, standing water, trash and debris, and sediment accumulation.
- Remove accumulated trash and debris in the basin at the start and end of the wet season.
- Inspect for standing water at the end of the wet season.
- Trim vegetation at the beginning and end of the wet season to prevent establishment of woody vegetation and for aesthetic and vector reasons.
- Remove accumulated sediment and regrade when the accumulated sediment volume exceeds 10% of the basin.
- If erosion is occurring within the basin, revegetate immediately and stabilize with an erosion control mulch or mat until vegetation cover is established.
- To avoid reversing soil development, scarification or other disturbance should only be performed when there are actual signs of clogging, rather than on a routine basis. Always remove deposited sediments before scarification, and use a hand-guided rotary tiller, if possible, or a disc harrow pulled by a very light tractor.

Cost

Infiltration basins are relatively cost-effective practices because little infrastructure is needed when constructing them. One study estimated the total construction cost at about $2 per ft (adjusted for inflation) of storage for a 0.25-acre basin (SWRPC, 1991). As with other BMPs, these published cost estimates may deviate greatly from what might be incurred at a specific site. For instance, Caltrans spent about $18/ft^3 for the two infiltration basins constructed in southern California, each of which had a water quality volume of about 0.34 ac.-ft. Much of the higher cost can be attributed to changes in the storm drain system necessary to route the runoff to the basin locations.

Infiltration basins typically consume about 2 to 3% of the site draining to them, which is relatively small. Additional space may be required for buffer, landscaping, access road, and fencing. Maintenance costs are estimated at 5 to 10% of construction costs.

One cost concern associated with infiltration practices is the maintenance burden and longevity. If improperly maintained, infiltration basins have a high failure rate. Thus, it may be necessary to replace the basin with a different technology after a relatively short period of time.

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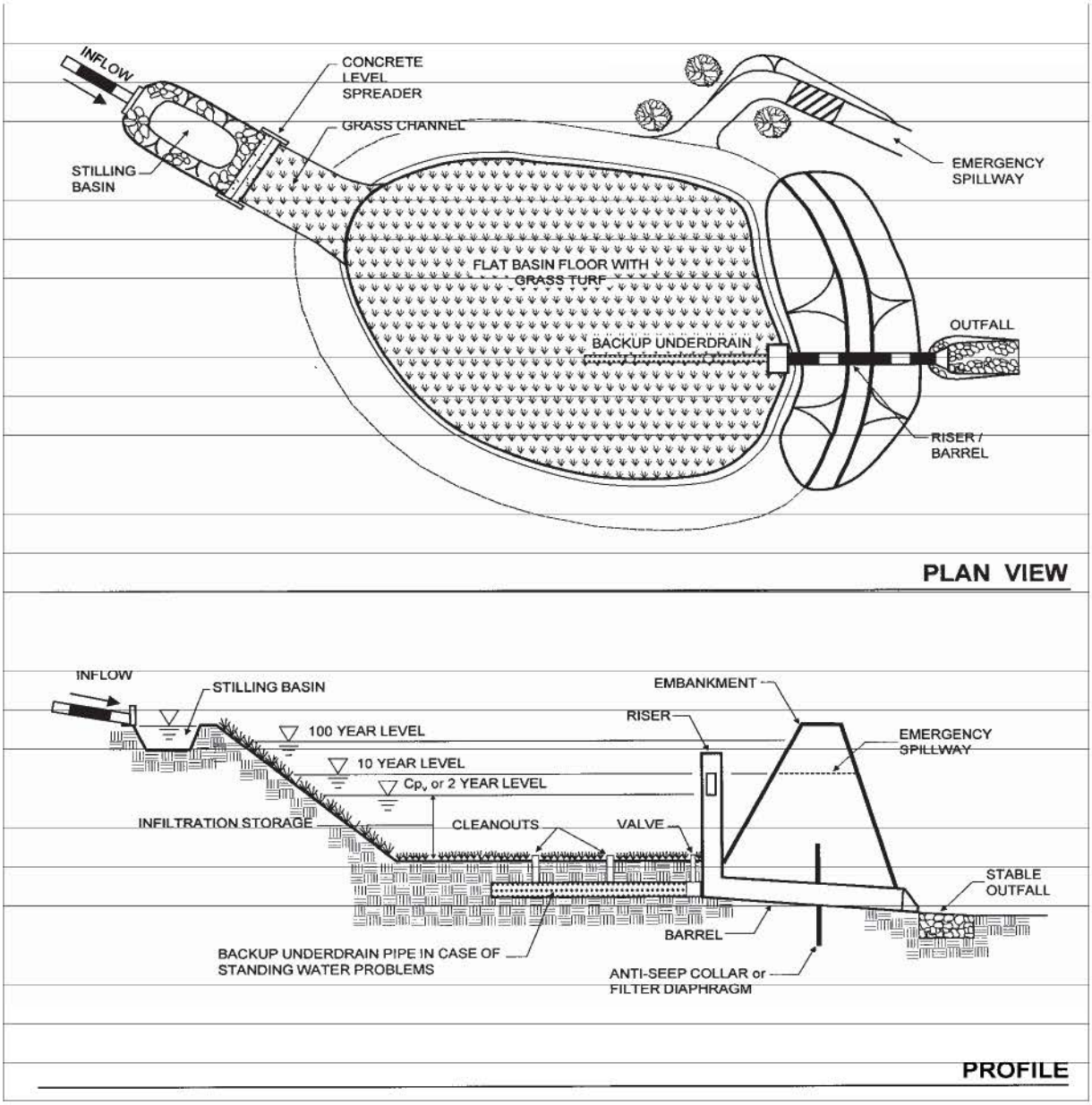
INFLOW
CONCRETE LEVEL SPREADER
GRASS CHANNEL
STILLING BASIN
EMERGENCY SPILLWAY
FLAT BASIN FLOOR WITH GRASS TURF
OUTFALL
BACKUP UNDERDRAIN
RISER / BARREL
PLAN VIEW
INFLOW
STILLING BASIN
EMBANKMENT
RISER
100 YEAR LEVEL
EMERGENCY SPILLWAY
10 YEAR LEVEL
Cpv or 2 YEAR LEVEL
INFILTRATION STORAGE
CLEANOUTS
VALVE
STABLE OUTFALL
BARREL
BACKUP UNDERDRAIN PIPE IN CASE OF STANDING WATER PROBLEMS
ANTI-SEEP COLLAR or FILTER DIAPHRAGM
PROFILE

Bioretention TC-32

Maintenance Concerns, Objectives, and Goals

- Clogged Soil or Outlet Structures
- Invasive Species
- Vegetation/Landscape Maintenance
- Erosion
- Channelization of Flow
- Aesthetics

General Description

The bioretention best management practice (BMP) functions as a soil and plant-based filtration device that removes pollutants through a variety of physical, biological, and chemical treatment processes. These facilities normally consist of a grass buffer strip, sand bed, ponding area, organic layer or mulch layer, planting soil, and plants. The runoff's velocity is reduced by passing over or through a sand bed and is subsequently distributed evenly along a ponding area. Exfiltration of the stored water in the bioretention area planting soil into the underlying soils occurs over a period of days.

Targeted Constituents

✓	Sediment	■
✓	Nutrients	▲
✓	Trash	■
✓	Metals	■
✓	Bacteria	■
✓	Oil and Grease	■
✓	Organics	■
✓	Oxygen Demanding	■

Legend ***(Removal Effectiveness)***

● Low ■ High

▲ Medium

Inspection/Maintenance Considerations

Bioretention requires frequent landscaping maintenance, including measures to ensure that the area is functioning properly, as well as maintenance of the landscaping on the practice. In many cases, bioretention areas initially require intense maintenance, but less maintenance is needed over time. In many cases, maintenance tasks can be completed by a landscaping contractor, who may already be hired at the site. In cold climates the soil may freeze, preventing runoff from infiltrating into the planting soil.

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Inspection Activities	Suggested Frequency
■ Inspect soil and repair eroded areas.	Monthly
■ Inspect for erosion or damage to vegetation, preferably at the end of the wet season to schedule summer maintenance and before major fall runoff to be sure the strips are ready for winter. However, additional inspection after periods of heavy runoff is desirable.	Semi-annual inspection
■ Inspect to ensure grass is well established. If not, either prepare soil and reseed or replace with alternative species. Install erosion control blanket.	
■ Check for debris and litter, and areas of sediment accumulation.	
■ Inspect health of trees and shrubs.	
Maintenance Activities	**Suggested Frequency**
■ Water plants daily for 2 weeks.	At project completion
■ Remove litter and debris.	Monthly
■ Remove sediment.	As needed
■ Remulch void areas.	
■ Treat diseased trees and shrubs.	
■ Mow turf areas.	
■ Repair erosion at inflow points.	
■ Repair outflow structures.	
■ Unclog underdrain.	
■ Regulate soil pH regulation.	
■ Remove and replace dead and diseased vegetation.	Semi-annual
■ Add mulch.	Annual
■ Replace tree stakes and wires.	
■ Mulch should be replaced every 2 to 3 years or when bare spots appear. Remulch prior to the wet season.	Every 2-3 years, or as needed

Additional Information

Landscaping is critical to the function and aesthetic value of bioretention areas. It is preferable to plant the area with native vegetation, or plants that provide habitat value, where possible. Another important design feature is to select species that can withstand the hydrologic regime they will experience. At the bottom of the bioretention facility, plants that tolerate both wet and dry conditions are preferable. At the edges, which will remain primarily dry, upland species will be the most resilient. It is best to select a combination of trees, shrubs, and herbaceous materials.

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XIV.1. Hydrologic Source Control Fact Sheets (HSC)

HSC-1: Localized On-Lot Infiltration

'Localized on-lot infiltration' refers to the practice of collecting on-site runoff from small distributed areas within a catchment and diverting it to a dedicated on-site infiltration area. This technique can include disconnecting downspouts and draining sidewalks and patios into french drains, trenches, small rain gardens, or other surface depressions. For downspout disconnections and other impervious area disconnection involving dispersion over pervious surfaces, but without intentional ponding, see HSC-2: Impervious Area Dispersion.

Also known as:

- *Downspout infiltration*
- *Retention grading*
- *French drains*
- *On-lot rain gardens*

On-lot rain garden
Source: lowimpactdevelopment.org

Feasibility Screening Considerations

- 'Localized on-lot infiltration' shall meet infiltration infeasibility screening criteria to be considered for use.

Opportunity Criteria

- Runoff can be directed to and temporarily pond in pervious area depressions, rock trenches, or similar.
- Soils are adequate for infiltration or can be amended to provide an adequate infiltration rate.
- Shallow utilities are not present below infiltration areas.

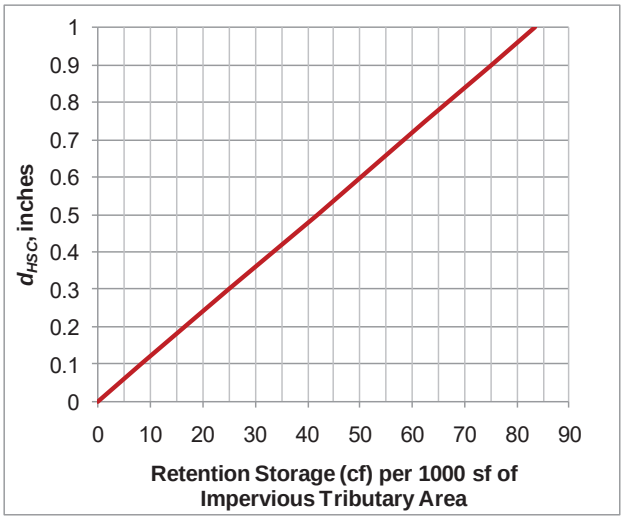
OC-Specific Design Criteria and Considerations

- ☐ A single on-lot infiltration area should not be sized to retain runoff from impervious areas greater than 4,000 sq. ft.; if the drainage area exceeds this criteria, sizing should be based on calculations for bioretention areas or infiltration trenches.
- ☐ Soils should be sufficiently permeable to eliminate ponded water within 24 hours following a 85th percentile, 24-hour storm event.
- ☐ Maximum ponding depth should be should be less than 3 inches and trench depth should be less than 1.5 feet.
- ☐ Infiltration should not be used when the depth to the mounded seasonally high table is within 5 feet of the bottom of infiltrating surface.
- ☐ Infiltration via depression storage, french drains, or rain gardens should be located greater than 8 feet from building foundations.
- ☐ Site slope should be less than 10%.
- ☐ Infiltration unit should not be located within 50 feet of slopes greater than 15 percent.
- ☐ Side slopes of rain garden or depression storage should not exceed 3H:1V.
- ☐ Effective energy dissipation and uniform flow spreading methods should be employed to prevent erosion resulting fromwater entering infiltration areas.

☐ Overflow should be located such that it does not cause erosion orand is conveyed away from structures toward the downstream conveyance and treatment system. .

Calculating HSC Retention Volume

- The retention volume provided by localized on-lot infiltration can be computed as the storage volume provided by surface ponding and the pore space within an amended soil layer or gravel trench.
- Estimate the average retention volume per 1000 square feet impervious tributary area provided by on-lot infiltration.
- Look up the storm retention depth, d_{HSC} from the chart to the right.
- The max d_{HSC} is equal to the design capture storm depth for the project site.



Configuration for Use in a Treatment Train

- Localized on-lot infiltration would typically serve as the first in a treatment train and should only be used where tributary areas do not generate significant sediment that would require pretreatment to mitigate clogging.
- The use of impervious area disconnection reduces the sizing requirement for downstream LID and/or conventional treatment control BMPs.

Additional References for Design Guidance

- LID Center – Rain Garden Design Template. http://www.lowimpactdevelopment.org/raingarden_design/
- University of Wisconsin Extension. Rain Gardens: A How-To Manual for Homeowners. http://learningstore.uwex.edu/assets/pdfs/GWQ037.pdf

HSC-2: Impervious Area Dispersion

Impervious area dispersion refers to the practice of routing runoff from impervious areas, such as rooftops, walkways, and patios onto the surface of adjacent pervious areas. Runoff is dispersed uniformly via splash block or dispersion trench and soaks into the ground as it move slowly across the surface of pervious areas. Minor ponding may occur, but it is not the intent of this practice to actively promote localized on-lot storage (See HSC-1: Localized On-Lot Infiltration).

Also known as:

- *Downspout disconnection*
- *Impervious area disconnection*
- *Sheet flow dispersion*

Simple Downspout Dispersion
Source: toronto.ca/environment/water.htm

Feasibility Screening Considerations

- Impervious area dispersion can be used where infiltration would otherwise be infeasible, however dispersion depth over landscaped areas should be limited by site-specific conditions to prevent standing water or geotechnical issues.

Opportunity Criteria

- Rooftops and other low traffic impervious surface present in drainage area.
- Soils are adequate for infiltration. If not, soils can be amended to improve capacity to absorb dispersed water (see MISC-2: Amended Soils).
- Significant pervious area present in drainage area with shallow slope
- Overflow from pervious area can be safely managed.

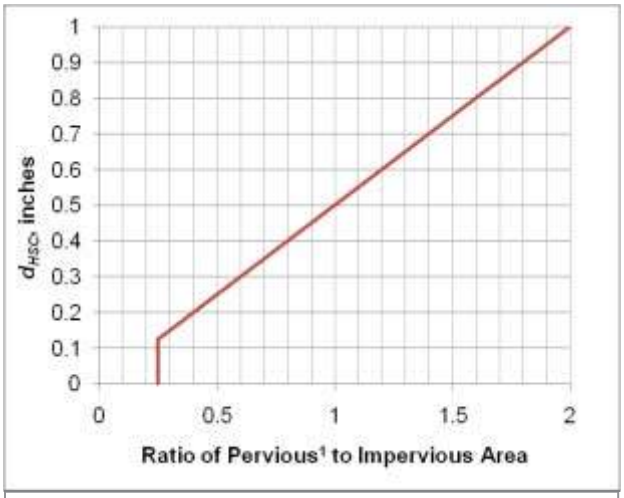
OC-Specific Design Criteria and Considerations

- ☐ Soils should be preserved from their natural condition or restored via soil amendments to meet minimum criteria described in Section .
- ☐ A minimum of 1 part pervious area capable of receiving flow should be provided for every 2 parts of impervious area disconnected.
- ☐ The pervious area receiving flow should have a slope ≤ 2 percent and path lengths of ≥ 20 feet per 1000 sf of impervious area.
- ☐ Dispersion areas should be maintained to remove trash and debris, loose vegetation, and protect any areas of bare soil from erosion.
- ☐ Velocity of dispersed flow should not be greater than 0.5 ft per second to avoid scour.

Calculating HSC Retention Volume

- The retention volume provided by downspout dispersion is a function of the ratio of impervious to pervious area and the condition of soils in the pervious area.
- Determine flow patterns in pervious area and estimate footprint of pervious area receiving dispersed flow. Calculate the ratio of pervious to impervious area.
- Check soil conditions using the soil condition design criteria below; amend if necessary.
- Look up the storm retention depth, d_{HSC} from the chart below.

- The max d_{HSC} is equal to the design storm depth for the project site.



[1] Pervious area used in calculation should only include the pervious area receiving flow, not pervious area receiving only direct rainfall or upslope pervious drainage.

Soil Condition Design Criteria

- ☐ Maximum slope of 2 percent
- ☐ Well-established lawn or landscaping
- ☐ Minimum soil amendments per criteria in MISC-2: Amended Soils.

Configuration for Use in a Treatment Train

- Impervious area disconnection is an HSC that may be used as the first element in any treatment train
- The use of impervious area disconnection reduces the sizing requirement for downstream LID and/or treatment control BMPs

Additional References for Design Guidance

- SMC LID Manual (pp 131) http://www.lowimpactdevelopment.org/guest75/pub/All_Projects/SoCal_LID_Manual/SoCalLID_Manual_FINAL_040910.pdf
- City of Portland Bureau of Environmental Services. 2010. How to manage stormwater – Disconnect Downspouts. http://www.portlandonline.com/bes/index.cfm?c=43081&a=177702
- Seattle Public Utility: http://www.cityofseattle.org/util/stellent/groups/public/@spu/@usm/documents/webcontent/spu01_006395.pdf
- Thurston County, Washington State (pp 10): http://www.co.thurston.wa.us/stormwater/manual/docs-faqs/DG-5-Roof-Runoff-Control_Rev11Jan24.pdf

HSC-3: Street Trees

By intercepting rainfall, trees can provide several aesthetic and stormwater benefits including peak flow control, increased infiltration and ET, and runoff temperature reduction. The volume of precipitation intercepted by the canopy reduces the treatment volume required for downstream treatment BMPs. Shading reduces the heat island effect as well as the temperature of adjacent impervious surfaces, over which stormwater flows, and thus reduces the heat transferred to downstream receiving waters. Tree roots also strengthen the soil structure and provide infiltrative pathways, simultaneously reducing erosion potential and enhancing infiltration.

Also known as:

- *Canopy interception*

Street trees
Source: Geosyntec Consultants

Feasibility Screening Considerations

- Not applicable

Opportunity Criteria

- Street trees can be incorporated in green streets designs along sidewalks, streets, parking lots, or driveways.
- Street trees can be used in combination with bioretention systems along medians or in traffic calming bays.
- There must be sufficient space available to accommodate both the tree canopy and root system.

OC-Specific Design Criteria and Considerations

- ☐ Mature tree canopy, height, and root system should not interfere with subsurface utilities, suspended powerlines, buildings and foundations, or other existing or planned structures. Required setbacks should be adhered to.
- ☐ Depending on space constarints, a 20 to 30 foot diameter canopy (at maturity) is recommended for stormwater mitigation.
- ☐ Native, drought-tolerant species should be selected in order to minimize irrigation requirements and improve the long-term viability of trees.
- ☐ Trees should not impede pedstrian or vehicle sight lines.
- ☐ Planting locations should receive adequate sunlight and wind protection; other environmental factors should be considered prior to planting.
- ☐ Frequency and degree of vegetation management and maintenance should be considered with respect to owner capabilities (e.g., staffing, funding, etc.).
- ☐ Soils should be preserved in their natural condition (if appropriate for planting) or restored via soil amendments to meet minimum criteria described in MISC-2: Amended Soils. If necessary, a landscape architect or plant biologist should be consulted.
- ☐ A street tree selection guide, such as that specific to the City of Los Angeles, may need to be consulted to select species appropriate for the site design constraints (e.g., parkway size, tree height, canopy spread, etc.)
- ☐ Infiltration should not cause geotechnical hazards related to adjacent structures (buildings,

roadways, sidewalks, utilities, etc.)

Calculating HSC Retention Volume

- The retention volume provided by streets trees via canopy interception is dependent on the tree species, time of the year, and maturity.
- To compute the retention depth, the expected impervious area covered by the full tree canopy after 4 years of growth must be computed (IA_{HSC}). The maximum retention depth credit for canopy interception (d_{HSC}) is 0.05 inches over the area covered by the canopy at 4 years of growth.

Configuration for Use in a Treatment Train

- As a HSC, street trees would serve as the first step in a treatment train by reducing the treatment volume and flow rate of a downstream treatment BMP.

Additional References for Design Guidance

- California Stormwater BMP Handbook. **http://www.cabmphandbooks.com/Documents/Development/Section_3.pdf**
- City of Los Angeles, Street Tree Division - Street Tree Selection Guide. **http://bss.lacity.org/UrbanForestryDivision/StreetTreeSelectionGuide.htm**
- Portland Stormwater Management Manual. **http://www.portlandonline.com/bes/index.cfm?c=35122&a=55791**
- San Diego County – Low Impact Development Fact Sheets. **http://www.sdcounty.ca.gov/dplu/docs/LID-Appendices.pdf**

Attachment D

Infiltration Report, Factor of Safety Worksheet H, & EPA Class V Injection Well Registration

Peng, Ryan

From: kerpel.judith@epa.gov
Sent: Tuesday, December 7, 2021 10:40 AM
To: Peng, Ryan
Cc: kevin@patriotdevelopmentpartners.com
Subject: USEPA UIC notification regarding: CA-20211207-JK-2435: 3rd at Central Industrial, Highland, CA, 92346

Thank you for submitting inventory data for the above-referenced facility with its injection ID. Below is a copy of data received. Please reply if the data was received or transcribed in error.
This notice authorizes only the planned discharge listed. Please update this registration when this well is active to receive our authorization to inject uncontaminated water only.
Any change of use or ownership of the well, or any new injection, requires notification to EPA. For more information, please see also the regulations beginning at 40 CFR 144.

Judy Kerpel
US EPA Region 9

-Facility
3rd at Central Industrial
Northwest corner of 3rd Street and Central Avenue Highland, CA 92346

GIS: 34.106956, -117.218678
Local Identifier: APN: 1192-561-11, 15, 16, 17, 18, 19, 20, & 21 UIC File ID: CA-20211207-JK-2435 Tribal Land: No
Ownership: Private - Business or other for-profits

-Contacts
---Contact Type: PRIMARY OWNER
Kevin Rice
PATRIOT DEVELOPMENT PARTNERS
12126 W. Sunset Blvd.
LOS ANGELES, CA 90049
kevin@patriotdevelopmentpartners.com
---Contact Type: Consultant
Ryan Peng
huitt-zollars, inc
rpeng@huitt-zollars.com

-Well Summary
1 - Under Construction - 5D2 Stormwater Drainage - as of 12/06/2021
-

CAUTION: This email originated from outside Huitt-Zollars. Treat all links and attachments with appropriate caution. Verify with sender if unexpected.

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Geotechnical Engineering Investigation

Proposed Industrial Warehouse Development
Northwest Corner of 3rd Street and Central Avenue
Highland, California

Patriot Partners
12126 W. Sunset Boulevard
Los Angeles, California 90094

Attn: Kevin Rice

Project Number 22775-21
October 6, 2021

NorCal Engineering

NorCal Engineering

Soils and Geotechnical Consultants
10641 Humbolt Street Los Alamitos, CA 90720
(562) 799-9469 Fax (562) 799-9459

October 6, 2021 Project Number 22775-21

Patriot Partners
12126 W. Sunset Boulevard
Los Angeles, California 90049-4145

Attn: Kevin Rice

RE: **Geotechnical Engineering Investigation** - Proposed Industrial Warehouse Development - Located at the Northwest Corner of 3rd Street and Central Avenue, in the City of Highland, California

Dear Mr. Rice:

Pursuant to your request, this firm has performed a Geotechnical Engineering Investigation for the above referenced project in accordance with your approval of our proposal dated August 24, 2021. The purpose of this investigation is to evaluate the geotechnical conditions of the subject site and to provide recommendations for the construction of a proposed industrial warehouse development.

The scope of work included the following: 1) site reconnaissance; 2) subsurface geotechnical exploration and sampling; 3) laboratory testing; 4) soil infiltration testing; 5) engineering analysis of field and laboratory data; 6) preparation of a geotechnical engineering report. It is the opinion of this firm that the proposed development is feasible from a geotechnical standpoint provided that the recommendations presented in this report are followed in the design and construction of the project.

1.0 Project Description

It is proposed to construct an industrial warehouse development consisting of 56,184 square feet building on the 3.01-acre site as shown on the attached Site Plan. The proposed concrete tilt-up building will be supported by a conventional slab-on-grade foundation system with perimeter-spread footings and isolated interior footings. Other improvements will include asphalt and concrete pavement areas, hardscape and landscaping. It is assumed that the proposed grading for the development will include cut and fill procedures on the order of a few feet to achieve finished grade elevations. Final building plans shall be reviewed by this firm prior to submittal for city approval to determine the need for any additional study and revised recommendations pertinent to the proposed development, if necessary.

2.0 Site Description

The 3.01-acre subject property is located at the Northwest Corner of 3rd Street and Central Avenue, in the City of Highland. The generally rectangular shaped parcel is elongated in an east to west direction and is relatively level with topography of the property descending gradually in a north to south direction on the order of a few feet. The site is currently an asphaltic parking lot being used for tractor trailer parking and storage.

3.0 Site Exploration

The investigation consisted of the placement of nine (9) subsurface exploratory trenches by a backhoe to depths ranging between 5 and 18 feet below current ground elevations. The trenches were placed at accessible locations throughout the property. The explorations were visually classified and logged by a field engineer with locations of the subsurface explorations shown on the attached plan.

The exploratory trenches revealed the existing earth materials to consist of fill and natural soil. Detailed descriptions of the subsurface conditions are listed on the boring logs in Appendix A. It should be noted that the transition from one soil type to another as shown on the trench logs is approximate and may in fact be a gradual transition. The soils encountered are described as follows:

Fill: A fill soil classifying as a brown, fine to medium grained, silty SAND with gravel and occasional asphalt pieces was encountered across the site to depths ranging from 1 to 2.5 feet below ground surface. These soils were noted to be medium dense and moist.

Natural: A natural undisturbed soil classifying as a brown, fine to coarse grained slightly silty SAND with cobbles and occasional boulders (up to a maximum of 28 inches in diameter) was encountered beneath the upper fill soils. The native soils as encountered were observed to be medium dense and dry to damp.

The overall engineering characteristics of the earth material were relatively uniform with each excavation. Groundwater was not encountered to the depth of our trenches and caving occurred in the deeper cohesionless soils.

4.0 Laboratory Tests

Relatively undisturbed samples of the subsurface soils were obtained to perform laboratory testing and analysis for direct shear, consolidation tests, and to determine in-place moisture/densities. These relatively undisturbed ring samples were obtained by driving a thin-walled steel sampler lined with one-inch-long brass rings with an inside diameter of 2.42 inches into the undisturbed soils. Bulk bag samples were obtained in the upper soils for expansion index tests and maximum density tests. All test results are included in Appendix B, unless otherwise noted.

4.1 **Field Moisture Content** (ASTM: D 2216) and the dry density of the ring samples were determined in the laboratory. This data is listed on the logs of explorations.

4.2 **Maximum Density tests** (ASTM: D 1557) were performed on typical samples of the upper soils. Results of these tests are shown on Table I.

4.3 **Expansion Index tests** (ASTM: D 4829) were performed on remolded samples of the upper soils to determine expansive characteristics. Results of these tests are provided on Table II.

4.4 **Corrosion tests** consisting of sulfate, pH, resistivity and chloride analysis to determine potential corrosive effects of soils on concrete and underground utilities. Test results are provided on Table III.

4.5 **R-Value test** per California Test Method 301 was performed on a representative sample, which may be anticipated to be near subgrade to determine pavement design. Results are provided within the pavement design section of the report.

4.6 **Direct Shear tests** (ASTM: D 3080) were performed on undisturbed and/or remolded samples of the subsurface soils. The test is performed under saturated conditions at loads of 1,000 lbs./sq.ft., 2,000 lbs./sq.ft., and 3,000 lbs./sq.ft. with results shown on Plate A.

4.7 **Consolidation tests** (ASTM: D 2435) were performed on undisturbed samples to determine the differential and total settlement which may be anticipated based upon the proposed loads. Water was added to the samples at a surcharge of one KSF and the settlement curves are plotted on Plates B to C.

5.0 Seismicity Evaluation

The proposed development lies outside of any Alquist Priolo Special Studies Zone and the potential for damage due to direct fault rupture is considered unlikely. The San Andreas Fault (San Bernardino Segment) is located approximately 5 kilometers from the site and is capable of producing a Magnitude 7.4 earthquake. Ground shaking originating from earthquakes along other active faults in the region is expected to induce lower horizontal accelerations due to smaller anticipated earthquakes and/or greater distances to other faults. The seismic design parameters are provided below and are based on the 2019 California Building Code (CBC) Standard ASCE/SEI 7-16. The data was obtained from the American Society of Civil Engineers (ASCE) website, https://asce7hazardtool.online/. The ASCE 7 Hazards Report is attached in Appendix C.

Seismic Design Acceleration Parameters

Latitude	34.106
Longitude	-117.217
Site Class	D
Risk Category	II
Mapped Spectral Response Acceleration	S_S = 2.32 S_1 = 0.861
Adjusted Maximum Acceleration	S_{MS} = 2.32
Design Spectral Response Acceleration Parameters	S_{DS} = 1.547
Peak Ground Acceleration	PGA_M = 1.051

Use of these values is dependent on requirements of ASCE 7-16, 11-4.8, Exception 2 that requires the value of the seismic response coefficient C_s be determined by Equation 12.8.2 for values of $T \leq 1.5T_s$ and taken as equal to 1.5 times the value computed in accordance with either 12.8-3 for $T_L \geq T \geq 1.5T_s$ or Equation 12.8-4 for $T > T_L$. Computations and verification of these conditions is referred to the structural engineer.

6.0 Liquefaction Evaluation

The site is expected to experience ground shaking and earthquake activity that is typical of the Southern California area. It is during severe shaking that loose, granular soils below the groundwater table can liquefy. Based on review of the *County of San Bernardino County Land Use Plan – General Plan – Geologic Hazard Overlays (2009)*, the site lies outside a zone of "Suspected Liquefaction Susceptibility". Based on review of local groundwater maps, the depth of groundwater is in excess of 100 feet (Carson & Matti 1982). Thus, the design of the proposed construction in conformance with the latest Building Code provisions for earthquake design is expected to provide mitigation of ground shaking hazards that are typical to Southern California.

7.0 Infiltration Characteristics

Infiltration tests within the site were performed to provide preliminary infiltration rates for the purpose of planning and design of an on-site water disposal system. The infiltration tests consisted of the double ring infiltration test per ASTM Method D 3385 with test results given in Appendix D. Based upon the results of our testing, the soils encountered in the planned on-site drainage disposal system area exhibit the following infiltration rates.

Boring/Test No.	Depth	Soil Classification	Field Infiltration Rate
T-1/TH-1	5'	Slightly Silty SAND	85.8 in/hr
T-2/TH-2	10'	Slightly Silty SAND	50.4 in/hr

Based on the results of our field testing, the subsurface soils encountered in the proposed on-site drainage disposal system shall utilize the design infiltration rates based on the safety factor required by the county standard. All systems must meet the latest city and/or county specifications and the California Regional Water Quality Control Board (CRWQCB) requirements.

It is recommended that foundations shall be setback a minimum distance of 10 feet from the drainage disposal system and the bottom of footing shall be a minimum of 10 feet from the expected zone of saturation. The boundary of the zone of saturation may be assumed to project downward from the top of the permeable portion of the disposal system at an inclination of 1 to 1 or flatter, as determined by the geotechnical engineer.

8.0 Conclusions and Recommendations

Based upon our evaluations, the proposed development is acceptable from a geotechnical engineering standpoint. By following the recommendations and guidelines set forth in our report, the structures will be safe from excessive settlements under the anticipated design loadings and conditions. The proposed development shall meet all requirements of the City Building Ordinance and will not impose any adverse effect on existing adjacent structures.

The following recommendations are based upon soil conditions encountered in our field investigation; these near-surface soil conditions could vary across the site. Variations in the soil conditions may not become evident until the commencement of grading operations for the proposed development and revised recommendations from the soils engineer may be necessary based upon the conditions encountered.

It is recommended that site inspections be performed by a representative of this firm during all grading and construction of the development to verify the findings and recommendations documented in this report. Any unusual conditions which may be encountered in the course of the project development may require the need for additional study and revised recommendations.

8.1 Site Grading Recommendations

Any vegetation and/or demolition debris shall be removed and hauled from proposed grading areas prior to the start of grading operations. Existing vegetation shall not be mixed or disced into the soils. Any removed soils may be reutilized as compacted fill once any deleterious material or oversized materials (in excess of eight inches) is removed. Grading operations shall be performed in accordance with the attached *Specifications for Placement of Compacted Fill.*

8.1.1 Removal and Recompaction Recommendations

All disturbed soils and/or fill (about 1 to 2½ feet below ground surface) shall be removed to competent native material, the exposed surface scarified to a depth of 12 inches, brought to within 2% of optimum moisture content and compacted to a minimum of 90% of the laboratory standard (ASTM: D-1557) prior to placement of any additional compacted fill soils, foundations, slabs-on-grade and pavement. The upper 12 inches of soils beneath building pad and concrete paving shall be compacted to a minimum of 95% of the laboratory standard. Grading shall extend a minimum of five horizontal feet outside the edges of foundations or equidistant to the depth of fill placed, whichever is greater.

The site is underlain by alluvium generally composed of gravels, cobbles and boulders in a silty sand matrix. Oversized materials are anticipated to be encountered during grading operations. The proposed building pad shall be graded with cobbles up to 6-inch minus blended uniformly with soils in the upper one foot beneath pad grade and within planned utility/foundation areas. Rock size up to 12 inches blended uniformly with soils shall be placed below two feet of more below grade. All fill will be required to be placed in suitable lifts, moisture conditioned and compacted to a minimum of 90% of the laboratory standard.

It is possible that isolated areas of undiscovered fill not described in this report are present on site; if found, these areas should be treated as discussed earlier. A diligent search shall also be conducted during grading operations in an effort to uncover any underground structures, irrigation or utility lines. If encountered, these structures and lines shall be either removed or properly abandoned prior to the proposed construction.

Any imported fill material should be preferably soil similar to the upper soils encountered at the subject site. All soils shall be approved by this firm prior to importing at the site and will be subjected to additional laboratory testing to assure concurrence with the recommendations stated in this report.

If placement of slabs-on-grade and pavement is not completed immediately upon completion of grading operations, additional testing and grading of the areas may be necessary prior to continuation of construction operations. Likewise, if adverse weather conditions occur which may damage the subgrade soils, additional assessment by the soils engineer as to the suitability of the supporting soils may be needed.

Care should be taken to provide or maintain adequate lateral support for all adjacent improvements and structures at all times during the grading operations and construction phase. Adequate drainage away from the structures, pavement and slopes should be provided at all times.

8.1.2 Fill Blanket Recommendations

Due to the potential for differential settlement of foundations placed on compacted fill and native materials, it is recommended that all foundations including floor slab areas be underlain by a uniform compacted fill blanket at least two feet in thickness. This fill blanket shall extend a minimum of five horizontal feet outside the edges of foundations or equidistant to the depth of fill placed, whichever is greater.

8.2 Shrinkage and Subsidence

The site is underlain by alluvium generally composed of gravels, cobbles and boulders blended with a sand matrix. It is our experience that a loss of volume from oversize rock will be anticipated. Results of our in-place density tests reveal that the soil shrinkage of the matrix will be on the order of 5 to 10% due to excavation and recompaction, based upon the assumption that the fill is compacted to 92% of the maximum dry density per ASTM standards. Subsidence should be 0.2 feet due to earthwork operations.

The volume change does not include any allowance for vegetation or organic stripping, removal of subsurface improvements, or topographic approximations. Although these values are only approximate, they represent our best estimate of lost yardage, which will likely occur during grading. If more accurate shrinkage and subsidence factors are needed, it is recommended that field testing the actual equipment and grading techniques should be conducted.

8.3 Temporary Excavations

Temporary *unsurcharged* excavations in the existing site materials may be made at vertical inclinations up to 4 feet in height unless cohesionless soils are encountered. In areas where soils with little or no binder are encountered, where adverse geological conditions are exposed, or where excavations are adjacent to existing structures, shoring or flatter excavations may be required. The temporary cut slope gradients given above do not preclude local raveling and sloughing.

All excavations shall be made in accordance with the requirements of the soils engineer, CAL-OSHA and other public agencies having jurisdiction. Care should be taken to provide or maintain adequate lateral support for all adjacent improvements and structures at all times during the grading operations and construction phase.

8.4 Foundation Design

All foundations may be designed utilizing the following allowable bearing capacities for an embedded depth of 18 inches into approved engineered fill with the corresponding widths:

Allowable Bearing Capacity (psf)		
Width (feet)	Continuous Foundation	Isolated Foundation
1.5	2000	2500
2.0	2075	2575
4.0	2375	2875
6.0	2500	3000

The bearing value may be increased by 500 psf for each additional foot of depth in excess of the 18-inch minimum depth, up to a maximum of 4,000 psf. A one-third increase may be used when considering short-term loading and seismic forces.

Any foundations located along property line may utilize an allowable bearing capacity of 1,500 psf and embedded into competent native soils. A modulus of subgrade reaction (k) of 200 pci may be used for design of slabs placed on engineered fill soils supporting sustained concentrated loads. A representative of this firm shall inspect all foundation excavations prior to pouring concrete.

8.5 Settlement Analysis

Resultant pressure curves for the consolidation tests are shown on Plates B to C. Computations utilizing these curves and the recommended allowable soil bearing capacities reveal that the foundations will experience settlements on the order of ¾ inch and differential settlements of less than ¼ inch.

8.6 Lateral Resistance

The following values may be utilized in resisting lateral loads imposed on the structure. Requirements of the California Building Code should be adhered to when the coefficient of friction and passive pressures are combined.

Coefficient of Friction - 0.40

Equivalent Passive Fluid Pressure = 250 lbs./cu.ft.

Maximum Passive Pressure = 2,500 lbs./cu.ft.

The passive pressure recommendations are valid only for approved compacted fill soils or competent native materials.

8.7 Retaining Wall Design Parameters

Active earth pressures against retaining walls will be equal to the pressures developed by the following fluid densities. These values are for **granular backfill material** placed behind the walls at various ground slopes above the walls.

Surface Slope of Retained Materials (Horizontal to Vertical	Equivalent Fluid Density (lb./cu.ft.)
Level	30
5 to 1	35
4 to 1	38
3 to 1	40
2 to 1	45

Any applicable short-term construction surcharges and seismic forces should be added to the above lateral pressure values. An equivalent fluid pressure of 45 pcf may be utilized for the restrained wall condition with a level grade behind the wall.

The seismic-induced lateral soil pressure for walls greater than 6 feet may be computed using a triangular pressure distribution with the maximum value at the top of the wall. The maximum lateral pressure of (20 pcf) H where H is the height of the retained soils above the wall footing should be used in final design of retaining walls. Sliding resistance values and passive fluid pressure values may be increased by 1/3 during short-term wind and seismic loading conditions.

All walls shall be waterproofed as needed and protected from hydrostatic pressure by a reliable permanent subdrain system. The granular backfill to be utilized immediately adjacent to retaining walls shall consist of an approved select granular soil with a sand equivalency greater than 30. This backfill zone of free draining material shall consist of a wedge beginning a minimum of one horizontal foot from the base of the wall extending upward at an inclination of no less than ¾ to 1 (horizontal to vertical).

8.8 Slab Design

All concrete slabs shall be a minimum of six inches in thickness in the proposed warehouse areas and four inches in office and hardscape and placed on approved subgrade soils compacted to a minimum of 95% of the laboratory standard in the upper 12 inches. Additional reinforcement requirements and an increase in thickness of the slabs-on-grade may be necessary based upon soils expansion potential and proposed loading conditions in the structures and should be evaluated further by the project engineers and/or architect.

A vapor retarder (10-mil minimum thickness) should be utilized in areas which would be sensitive to the infiltration of moisture. This retarder shall meet requirements of ASTM E 96, *Water Vapor Transmission of Materials* and ASTM E 1745, *Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.* The vapor retarder shall be installed in accordance with procedures stated in ASTM E 1643, *Standard practice for Installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.*

The moisture retarder may be placed directly upon compacted subgrade soils conditioned to near optimum moisture levels, although one to two inches of sand beneath the membrane is desirable. The subgrade upon which the retarder is placed shall be smooth and free of rocks, gravel or other protrusions which may damage the retarder. Use of sand above the retarder is under the purview of the structural engineer; if sand is used over the retarder, it should be placed in a dry condition.

8.9 Pavement Section Design

The table below provides a preliminary pavement design based upon an R-Value of 74 for the subgrade soils for the proposed pavement areas. Final pavement design may need to be based on R-Value testing of the subgrade soils near the conclusion of site grading to assure that these soils are consistent with those assumed in this preliminary design. *The recommendations are based upon estimated traffic loads. Client should submit any other anticipated traffic loadings to the geotechnical engineer, if necessary, so that pavement sections may be reviewed to determine adequacy to support the proposed loadings.*

Type of Traffic	Traffic Index	Asphalt (in.)	Base Material (in.)
Automobile Parking Stalls	4.0	3.0	3.0
Light Vehicle Circulation Areas	5.5	3.	4.0
Heavy Truck Access Areas	7.0	4.0	8.0

Any concrete slab-on-grade in pavement areas shall be a minimum of six inches in thickness and may be placed on approved subgrade soils.

All pavement areas shall have positive drainage toward an approved outlet from the site. Drain lines behind curbs and/or adjacent to landscape areas should be considered by client and the appropriate design engineers to prevent water from infiltrating beneath pavement. If such infiltration occurs, damage to pavement, curbs and flow lines, especially on sites with expansive soils, may occur during the life of the project.

Any approved base material shall consist of a Class II aggregate or equivalent and should be compacted to a minimum of 95% relative compaction. All pavement materials shall conform to the requirements set forth by the City of Fontana. The base material; and asphaltic concrete should be tested prior to delivery to the site and during placement to determine conformance with the project specifications. A pavement engineer shall designate the specific asphalt mix design to meet the required project specifications.

8.10 **Utility Trench and Excavation Backfill**

Trenches from installation of utility lines and other excavations may be backfilled with on-site soils or approved imported soils compacted to a minimum of 90% relative compaction. All utility lines shall be properly bedded with clean sand having a sand equivalency rating of 30 or more. This bedding material shall be thoroughly water jetted around the pipe structure prior to placement of compacted backfill soils.

8.11 **Corrosion Design Criteria**

Representative samples of the surficial soils, typical of the subgrade soils expected to be encountered within foundation excavations and underground utilities were tested for corrosion potential. The minimum resistivity value obtained for the samples tested is representative of an environment that may be severely corrosive to metals. The soil pH value was considered mildly alkaline and may not have a significant effect on soil corrosivity. Consideration should be given to corrosion protection systems for buried metal such as protective coatings, wrappings or the use of PVC where permitted by local building codes.

According to Table 4.3.1 of ACI 318 Building Code and Commentary, these contents revealed negligible sulfate concentrations. Therefore, a Type II cement according to latest CBC specifications may be utilized for building foundations at this time. It is recommended that additional sulfate tests be performed at the completion of site grading to assure that the as graded conditions are consistent with the recommendations stated in this design. Corrosion test results may be found on the attached Table IV.

8.12 **Expansive Soil**

On-site soils are very low in expansion potential (EI 0-20). When soils have an expansion index (EI) of 20 or more, special attention should be given to the project design and maintenance. The attached *Expansive Soil Guidelines* should be reviewed by the engineers, architects, owner, maintenance personnel and other interested parties and considered during the design of the project and future property maintenance. Expansion test results may be found on the attached Table II.

9.0 Closure

The recommendations and conclusions contained in this report are based upon the soil conditions uncovered in our test excavations. No warranty of the soil condition between our excavations is implied. NorCal Engineering should be notified for possible further recommendations if unexpected to unfavorable conditions are encountered during construction phase. It is the responsibility of the owner to ensure that all information within this report is submitted to the Architect and appropriate Engineers for the project.

A preconstruction conference should be held between the developer, general contractor, grading contractor, city inspector, architect, and soil engineer to clarify any questions relating to the grading operations and subsequent construction. Our representative should be present during the grading operations and construction phase to certify that such recommendations are complied within the field.

This geotechnical investigation has been conducted in a manner consistent with the level of care and skill exercised by members of our profession currently practicing under similar conditions in the Southern California area. No other warranty, expressed or implied is made.

We appreciate this opportunity to be of service to you. If you have any further questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
NORCAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
KEITH D. TUCKER
No. 841
Exp. 12/31/2022
GEOTECHNICAL
STATE OF CALIFORNIA

Keith D. Tucker
Project Engineer
R.G.E. 841

Mike Barone
Project Manager

SPECIFICATIONS FOR PLACEMENT OF COMPACTED FILL

Excavation

Any existing low-density soils and/or saturated soils shall be removed to competent natural soil under the inspection of the Geotechnical Engineering Firm. After the exposed surface has been cleansed of debris and/or vegetation, it shall be scarified until it is uniform in consistency, brought to the proper moisture content and compacted to a minimum of 90% relative compaction (in accordance with ASTM: D 1557).

In any area where a transition between fill and native soil or between bedrock and soil are encountered, additional excavation beneath foundations and slabs will be necessary in order to provide uniform support and avoid differential settlement of the structure.

Material for Fill

The on-site soils or approved import soils may be utilized for the compacted fill provided they are free of any deleterious materials and shall not contain any rocks, brick, asphaltic concrete, concrete or other hard materials greater than eight inches in maximum dimensions. Any import soil must be approved by the Geotechnical Engineering firm a minimum of 72 hours prior to importation of site.

Placement of Compacted Fill Soils

The approved fill soils shall be placed in layers not excess of six inches in thickness. Each lift shall be uniform in thickness and thoroughly blended. The fill soils shall be brought to within 2% of the optimum moisture content, unless otherwise specified by the Soils Engineering firm. Each lift shall be compacted to a minimum of 90% relative compaction (in accordance with ASTM: D 1557) and approved prior to the placement of the next layer of soil. Compaction tests shall be obtained at the discretion of the Geotechnical Engineering firm but to a minimum of one test for every 500 cubic yards placed and/or for every 2 feet of compacted fill placed.

The minimum relative compaction shall be obtained in accordance with accepted methods in the construction industry. The final grade of the structural areas shall be in a dense and smooth condition prior to placement of slabs-on-grade or pavement areas. No fill soils shall be placed, spread or compacted during unfavorable weather conditions. When the grading is interrupted by heavy rains, compaction operations shall not be resumed until approved by the Geotechnical Engineering firm.

Grading Observations

The controlling governmental agencies should be notified prior to commencement of any grading operations. This firm recommends that the grading operations be conducted under the observation of a Soils Engineering firm as deemed necessary. A 24-hour notice must be provided to this firm prior to the time of our initial inspection.

Observation shall include the clearing and grubbing operations to assure that all unsuitable materials have been properly removed; approve the exposed subgrade in areas to receive fill and in areas where excavation has resulted in the desired finished grade and designate areas of overexcavation; and perform field compaction tests to determine relative compaction achieved during fill placement. In addition, all foundation excavations shall be observed by the Soils Engineering firm to confirm that appropriate bearing materials are present at the design grades and recommend any modifications to construct footings.

EXPANSIVE SOIL GUIDELINES

The following expansive soil guidelines are provided for your project. The intent of these guidelines is to inform you, the client, of the importance of proper design and maintenance of projects supported on expansive soils. ***You, as the owner or other interested party, should be warned that you have a duty to provide the information contained in the soil report including these guidelines to your design engineers, architects, landscapers and other design parties in order to enable them to provide a design that takes into consideration expansive soils.***

In addition, you should provide the soil report with these guidelines to any property manager, lessee, property purchaser or other interested party that will have or assume the responsibility of maintaining the development in the future.

Expansive soils are fine-grained silts and clays which are subject to swelling and contracting. The amount of this swelling and contracting is subject to the amount of fine-grained clay materials present in the soils and the amount of moisture either introduced or extracted from the soils. Expansive soils are divided into five categories ranging from "very low" to "very high". Expansion indices are assigned to each classification and are included in the laboratory testing section of this report. *If the expansion index of the soils on your site, as stated in this report, is 21 or higher, you have expansive soils.* The classifications of expansive soils are as follows:

Classification of Expansive Soil*

Expansion Index	Potential Expansion
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very High

*From Table 18A-I-B of California Building Code (1988)

When expansive soils are compacted during site grading operations, care is taken to place the materials at or slightly above optimum moisture levels and perform proper compaction operations. Any subsequent excessive wetting and/or drying of expansive soils will cause the soil materials to expand and/or contract. These actions are likely to cause distress of foundations, structures, slabs-on-grade, sidewalks and pavement over the life of the structure. ***It is therefore imperative that even after construction of improvements, the moisture contents are maintained at relatively constant levels, allowing neither excessive wetting or drying of soils.***

Evidence of excessive wetting of expansive soils may be seen in concrete slabs, both interior and exterior. Slabs may lift at construction joints producing a trip hazard or may crack from the pressure of soil expansion. Wet clays in foundation areas may result in lifting of the structure causing difficulty in the opening and closing of doors and windows, as well as cracking in exterior and interior wall surfaces. In extreme wetting of soils to depth, settlement of the structure may eventually result. Excessive wetting of soils in landscape areas adjacent to concrete or asphaltic pavement areas may also result in expansion of soils beneath pavement and resultant distress to the pavement surface.

Excessive drying of expansive soils is initially evidenced by cracking in the surface of the soils due to contraction. Settlement of structures and on-grade slabs may also eventually result along with problems in the operation of doors and windows.

Projects located in areas of expansive clay soils will be subject to more movement and "hairline" cracking of walls and slabs than similar projects situated on non-expansive sandy soils. There are, however, measures that developers and property owners may take to reduce the amount of movement over the life the development. The following guidelines are provided to assist you in both design and maintenance of projects on expansive soils:

- Drainage away from structures and pavement is essential to prevent excessive wetting of expansive soils. Grades should be designed to the latest building code and maintained to allow flow of irrigation and rain water to approved drainage devices or to the street. Any "ponding" of water adjacent to buildings, slabs and pavement after rains is evidence of poor drainage; the installation of drainage devices or regrading of the area may be required to assure proper drainage. Installation of rain gutters is also recommended to control the introduction of moisture next to buildings. Gutters should discharge into a drainage device or onto pavement which drains to roadways.

- Irrigation should be strictly controlled around building foundations, slabs and pavement and may need to be adjusted depending upon season. This control is essential to maintain a relatively uniform moisture content in the expansive soils and to prevent swelling and contracting. Over-watering adjacent to improvements may result in damage to those improvements. NorCal Engineering makes no specific recommendations regarding landscape irrigation schedules.

- Planting schemes for landscaping around structures and pavement should be analyzed carefully. Plants (including sod) requiring high amounts of water may result in excessive wetting of soils. Trees and large shrubs may actually extract moisture from the expansive soils, thus causing contraction of the fine-grained soils.

- Thickened edges on exterior slabs will assist in keeping excessive moisture from entering directly beneath the concrete. A six-inch thick or greater deepened edge on slabs may be considered. Underlying interior and exterior slabs with 6 to 12 inches or more of non-expansive soils and providing presaturation of the underlying clayey soils as recommended in the soil report will improve the overall performance of on-grade slabs.

- Increase the amount of steel reinforcing in concrete slabs, foundations and other structures to resist the forces of expansive soils. The precise amount of reinforcing should be determined by the appropriate design engineers and/or architects.

- Recommendations of the soil report should always be followed in the development of the project. Any recommendations regarding presaturation of the upper subgrade soils in slab areas should be performed in the field and verified by the Soil Engineer.

N

1" = 50'

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

PATRIOT PARTNERS

PROJECT 22775-21 **DATE** OCTOBER 2021

SITE PLAN

NorCal Engineering
SOILS AND GEOTECHNICAL CONSULTANTS

PATRIOT PARTNERS

PROJECT: 22775-21 | DATE: OCTOBER 2021

VICINITY MAP

List of Appendices
(in order of appearance)

Appendix A – Log of Excavations

Log of Trenches T-1 to T-9

Appendix B – Laboratory Tests

Table I – Maximum Dry Density
Table II – Expansion
Table III – Corrosion
Plate A– Direct Shear
Plates B to C - Consolidation

Appendix C – ASCE Seismic Hazards Report

Appendix D – Soil Infiltration Data

Appendix A
Log of Excavations

MAJOR DIVISION			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL, SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANDS WITH FINE (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

UNIFIED SOIL CLASSIFICATION SYSTEM

NorCal Engineering

KEY:

- ■ Indicates 2.5-inch Inside Diameter. Ring Sample.
- ☒ Indicates 2-inch OD Split Spoon Sample (SPT).
- ⧅ Indicates Shelby Tube Sample.
- ◫ Indicates No Recovery.
- ◧ Indicates SPT with 140# Hammer 30 in. Drop.
- ⊠ Indicates Bulk Sample.
- ◩ Indicates Small Bag Sample.
- ◨ Indicates Non-Standard
- ⧗ Indicates Core Run.

COMPONENT PROPORTIONS

DESCRIPTIVE TERMS	RANGE OF PROPORTION
Trace	1 - 5%
Few	5 - 10%
Little	10 - 20%
Some	20 - 35%
And	35 - 50%

COMPONENT DEFINITIONS

COMPONENT	SIZE RANGE
Boulders	Larger than 12 in
Cobbles	3 in to 12 in
Gravel	3 in to No 4 (4.5mm)
Coarse gravel	3 in to 3/4 in
Fine gravel	3/4 in to No 4 (4.5mm)
Sand	No. 4 (4.5mm) to No. 200 (0.074mm)
Coarse sand	No. 4 (4.5 mm) to No. 10 (2.0 mm)
Medium sand	No. 10 (2.0 mm) to No. 40 (0.42 mm)
Fine sand	No. 40 (0.42 mm) to No. 200 (0.074 mm)
Silt and Clay	Smaller than No. 200 (0.074 mm)

MOISTURE CONTENT

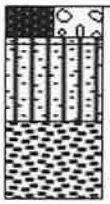
DRY	Absence of moisture, dusty, dry to the touch.
DAMP	Some perceptible moisture; below optimum
MOIST	No visible water; near optimum moisture content
WET	Visible free water, usually soil is below water table.

RELATIVE DENSITY OR CONSISTENCY VERSUS SPT N -VALUE

COHESIONLESS SOILS		COHESIVE SOILS		
Density	N (blows/ft)	Consistency	N (blows/ft)	Approximate Undrained Shear Strength (psf)
Very Loose	0 to 4	Very Soft	0 to 2	< 250
Loose	4 to 10	Soft	2 to 4	250 - 500
Medium Dense	10 to 30	Medium Stiff	4 to 8	500 - 1000
Dense	30 to 50	Stiff	8 to 15	1000 - 2000
Very Dense	over 50	Very Stiff	15 to 30	2000 - 4000
		Hard	over 30	> 4000

Patriot Development Partners 22775-21	Log of Trench T-1

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		4" Asphaltic Concrete over 4" Base					
		FILL Silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp					
5			☑		0.9		
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 5' Boulders up to 15 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

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Patriot Development Partners
22775-21

Log of Trench T-2

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		4" Asphaltic Concrete over 2" Base					
		FILL					
		Silty (fine to medium grained) SAND with gravel, asphaltic concrete					
		Brown, medium dense, moist					
		NATURAL					
5		Slightly silty (fine to medium grained) SAND with gravel, occasion al rock					
		Brown, medium dense, damp					
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders					
		Brown, medium dense, damp					
		Variation in grain size					
10		Boring completed at depth of 10'	☒		1.0		
		Boulders up to 18 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

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NorCal Engineering

Patriot Development Partners
22775-21

Log of Trench T-3

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		4" Asphaltic Concrete over 4" Base					
		FILL Silty (fine to medium grained) SAND with gravel, asphaltic concrete Brown, medium dense, moist			4.3	106.2	
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasion al rock Brown, medium dense, damp			2.7	106.8	
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10					2.8	112.1	
15					2.6		
		Boring completed at depth of 18.5' Boulders up to 22 inches in diameter			2.7		
20							
25							
30							
35							

GWT not encountered

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Patriot Development Partners 22775-21	Log of Trench T-4

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		9" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with occasional gravel Brown, medium dense, moist	■		6.1	98.7	
		NATURAL Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
5		Boring completed at depth of 5' Boulders up to 15 inches in diameter					
10							
15							
20							
25							
30							
35							

GWT not encountered

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Patriot Development Partners 22775-21	Log of Trench T-5

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		4" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with occasional gravel Brown, medium dense, moist					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp	■		2.1	112.4	
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 10' Boulders up to 17 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

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NorCal Engineering

Patriot Development Partners
22775-21

Log of Trench T-6

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		3" Asphaltic Concrete					
		FILL					
		Silty (fine to medium grained) SAND with occasional asphaltic concrete, gravel					
		Brown, medium dense, moist	■		5.2	108.0	
5		NATURAL					
		Slightly silty (fine to medium grained) SAND with gravel, occasional rock					
		Brown, medium dense, damp	■		2.5	115.7	
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders					
		Brown, medium dense, damp					
10		Variation in grain size					
		Boring completed at depth of 10'					
		Boulders up to 20 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

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NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-7

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		9" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with gravel, occasional asphaltic concrete Brown, medium dense, moist					
5		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, damp	■		3.0	108.8	
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size	■		2.4	108.4	
10		Boring completed at depth of 10' Boulders up to 15 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

Date: 10/5/2021 File: C:\Superlog4\PROJECT\22775-21.log SuperLog CivilTech Software, USA www.civiltech.com

NorCal Engineering

Patriot Development Partners 22775-21	Log of Trench T-8

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples Type	Samples Blow Counts	Laboratory Moisture	Laboratory Dry Density	Laboratory Fines Content %
0		3" Asphaltic Concrete					
		FILL					
		Silty (fine to medium grained) SAND with gravel, occasional rock	■		5.0	101.4	
		Brown, medium dense, moist					
		NATURAL					
		Slightly silty (fine to medium grained) SAND with gravel, occasional rock					
5		Brown, medium dense, damp					
		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders					
		Brown, medium dense, damp					
		Variation in grain size					
10		Boring completed at depth of 5'					
		Boulders up to 14 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

Patriot Development Partners 22775-21	Log of Trench T-9

Boring Location: NWC 3rd and Central, Highland	
Date of Drilling: 9/14/2021	Groundwater Depth: None Encountered
Drilling Method: Backhoe	
Hammer Weight:	Drop:
Surface Elevation: Not Measured	

Depth (feet)	Lith-ology	Material Description	Samples: Type	Samples: Blow Counts	Laboratory: Moisture	Laboratory: Dry Density	Laboratory: Fines Content %
0		2" Asphaltic Concrete					
		FILL Silty (fine to medium grained) SAND with gravel, occasional rock Brown, medium dense, moist					
		NATURAL Slightly silty (fine to medium grained) SAND with gravel, occasion al rock Brown, medium dense, damp					
5		Slightly silty (fine to coarse grained) SAND with gravel, cobbles, occasional boulders Brown, medium dense, damp Variation in grain size					
10		Boring completed at depth of 10' Boulders up to 28 inches in diameter					
15							
20							
25							
30							
35							

GWT not encountered

SuperLog CivilTech Software, USA www.civiltech.com File: C:\Superlog4\PROJECT\22775-21.log Date: 10/5/2021

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Appendix B
Laboratory Tests

TABLE I
MAXIMUM DENSITY TESTS

Sample	Classification	Optimum Moisture (%)	Maximum Dry Density (lbs/cu.ft)
T-3 @ 2'	Slightly Silty SAND	9.5	125.0

TABLE II
EXPANSION TESTS

Sample	Classification	Expansion Index
T-3 @ 2'	Slightly Silty SAND	0

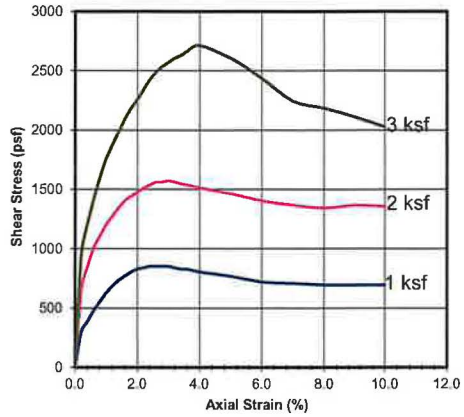
TABLE III
CORROSION TESTS

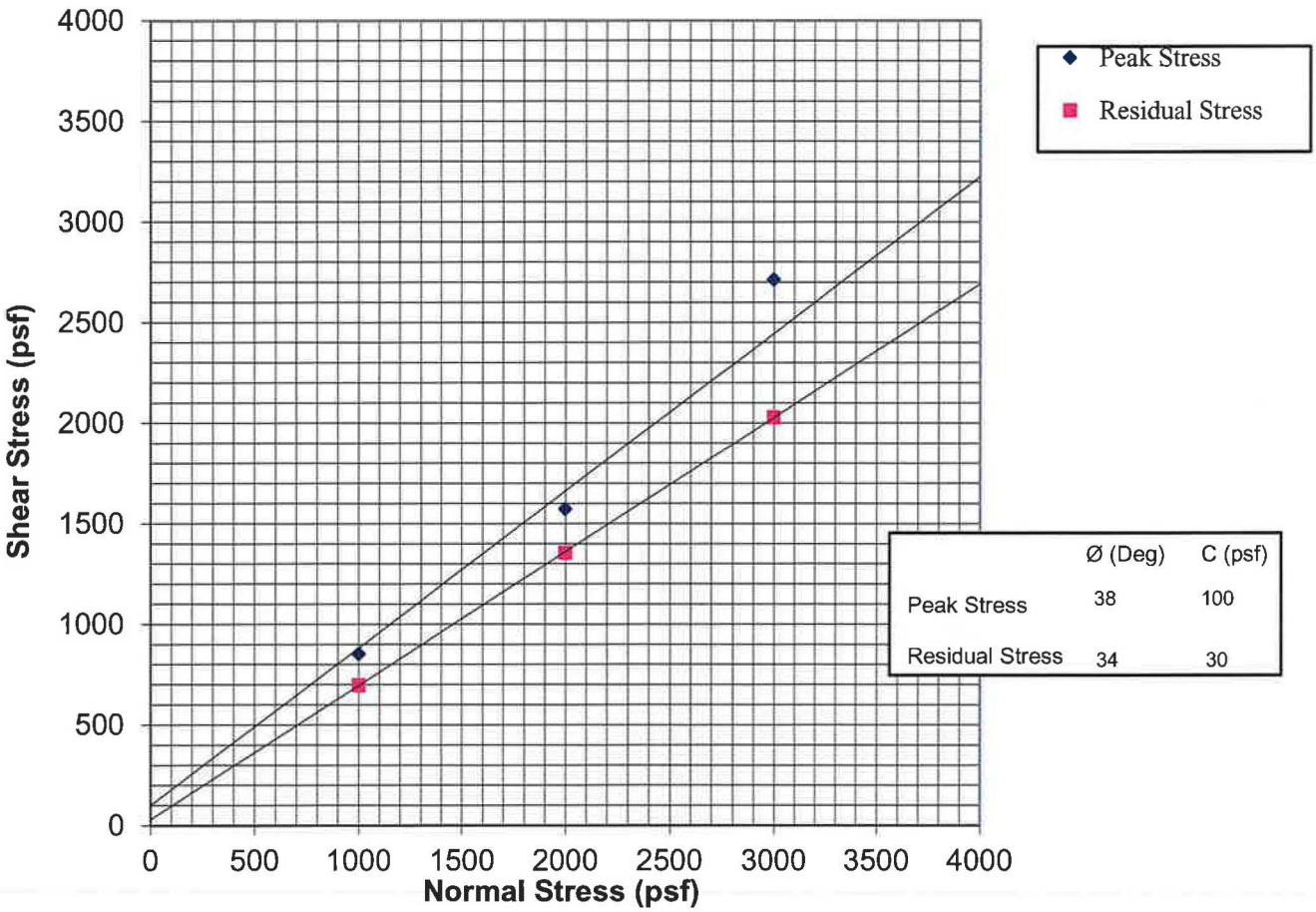
Sample	pH	Electrical Resistivity	Sulfate (%)	Chloride (ppm)
T-3 @ 2'	7.6	9,941	0.0002	177

% by weight
ppm – mg/kg

Sample No.	T3@2'
Sample Type:	Undisturbed-Saturated
Soil Description:	Fine-Very Coarse Grained Sand w/ Gravel & Trace Sil

		1	2	3
Normal Stress	(psf)	1000	2000	3000
Peak Stress	(psf)	852	1572	2712
Displacement	(in.)	0.060	0.075	0.100
Residual Stress	(psf)	696	1356	2028
Displacement	(in.)	0.250	0.250	0.250
Initial Dry Density	(pcf)	106.2	106.2	106.2
Initial Water Content	(%)	4.3	4.3	4.3
Strain Rate	(in./min.)	0.020	0.020	0.020





	Ø (Deg)	C (psf)
Peak Stress	38	100
Residual Stress	34	30

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PROJECT NUMBER: 22775-21 DATE: 9/29/2021

DIRECT SHEAR TEST

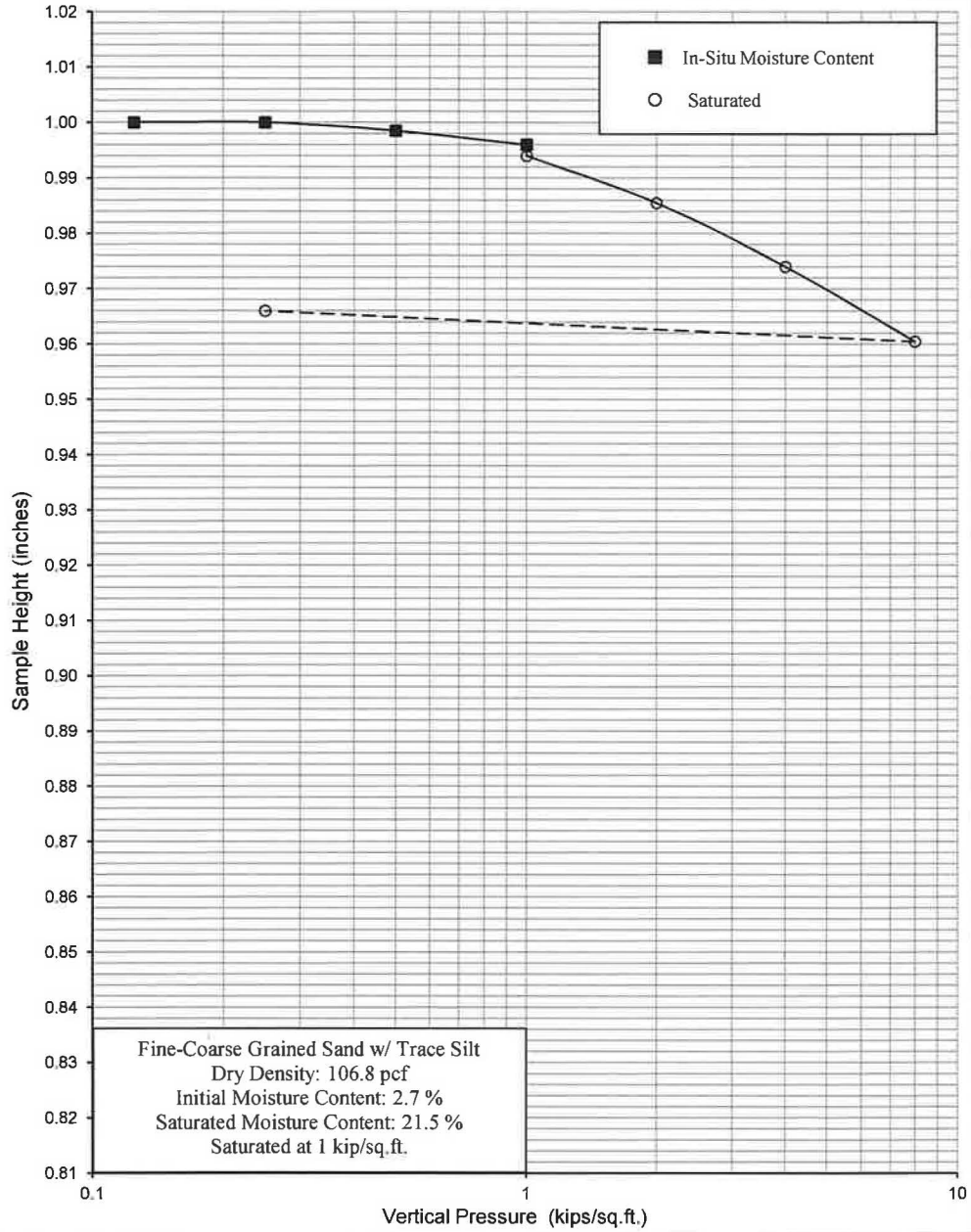
ASTM D3080

Plate A

Vertical Pressure (kips/sq.ft.)	Sample Height (inches)	Consolidation (percent)	
0.125	1.0000	0.0	
0.25	1.0000	0.0	
0.5	0.9985	0.2	
1	0.9960	0.4	
1	0.9940	0.6	
2	0.9855	1.5	
4	0.9740	2.6	
8	0.9605	4.0	Saturated
0.25	0.9660	3.4	

Sample No.	T3	Depth	5'	Date	9/29/2021

Date Tested: 9/28/2021
Sample: T3
Depth: 5'



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PROJECT NUMBER: 22775-21 DATE: 9/29/2021

CONSOLIDATION TEST

ASTM D2435

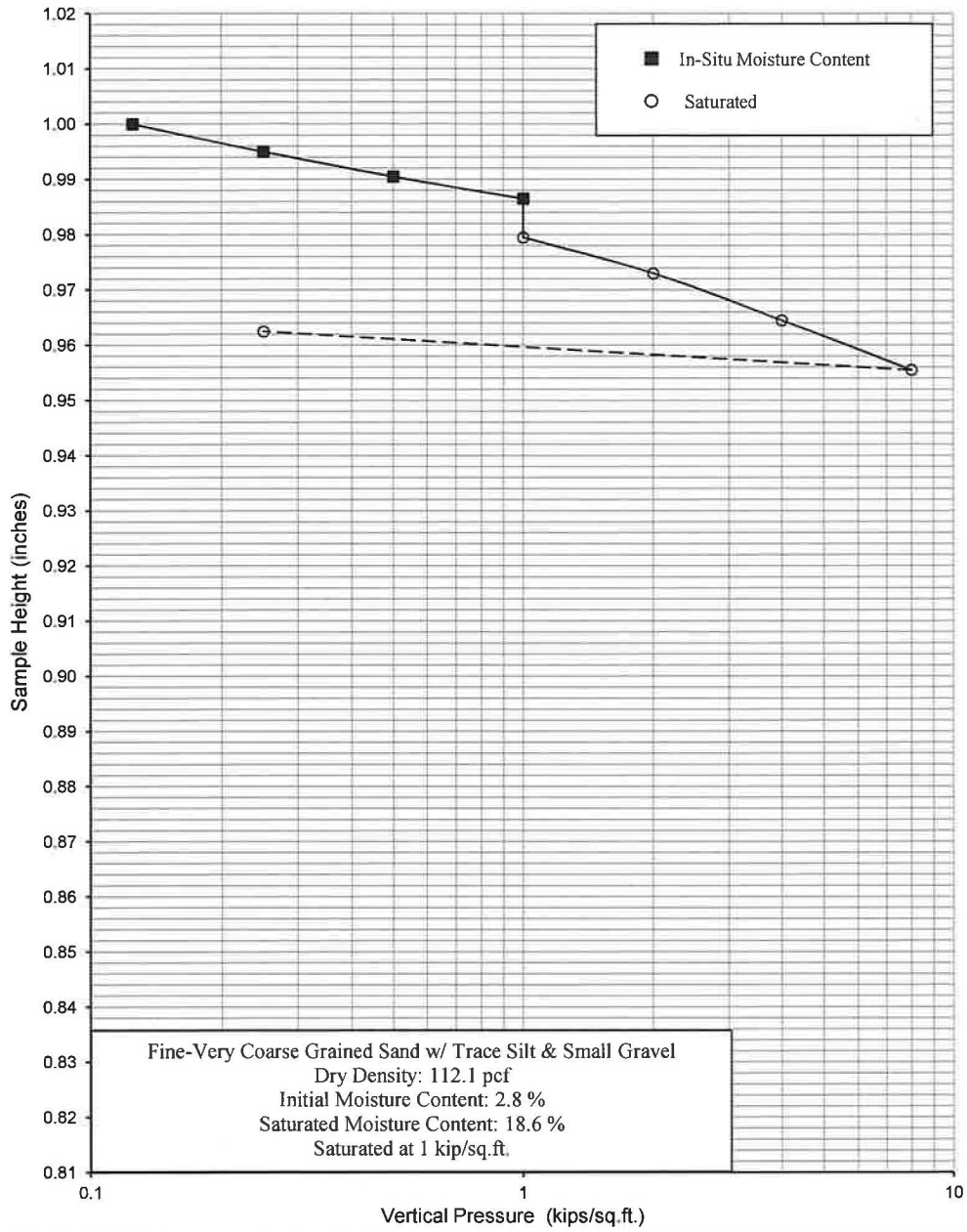
Plate B

Vertical Pressure (kips/sq.ft.)	Sample Height (inches)	Consolidation (percent)
0.125	1.0000	0.0
0.25	0.9950	0.5
0.5	0.9905	1.0
1	0.9865	1.4
1	0.9795	2.1
2	0.9730	2.7
4	0.9645	3.6
8	0.9555	4.5
0.25	0.9625	3.8

Saturated

Date Tested: 9/28/2021
Sample: T3
Depth: 10'

Sample No.	T3	Depth	10'	Date	9/29/2021



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SOILS AND GEOTECHNICAL CONSULTANTS

Patriot Partners

PROJECT NUMBER: 22775-21 DATE: 9/29/2021

CONSOLIDATION TEST

ASTM D2435

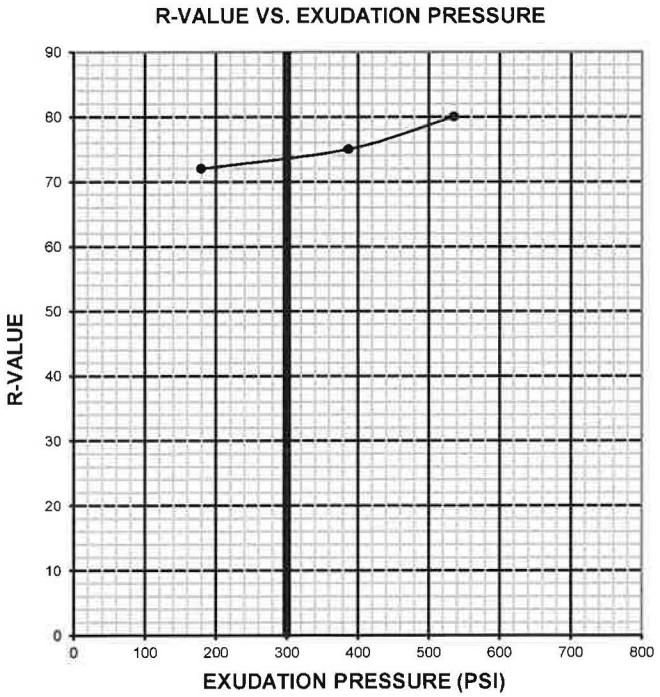
Plate C

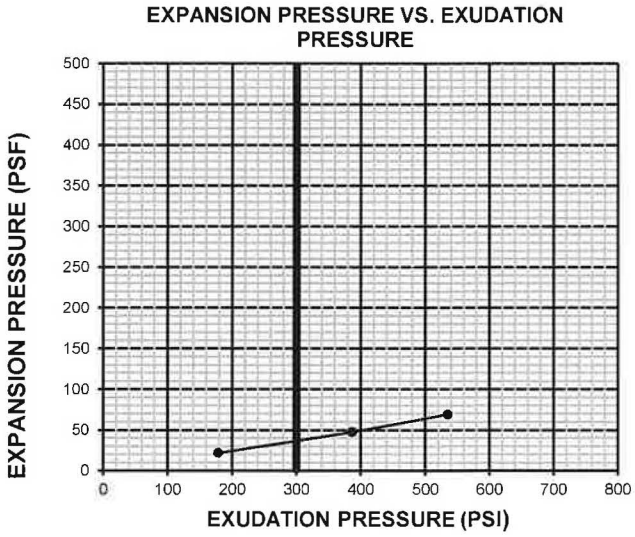
R-VALUE TEST REPORT

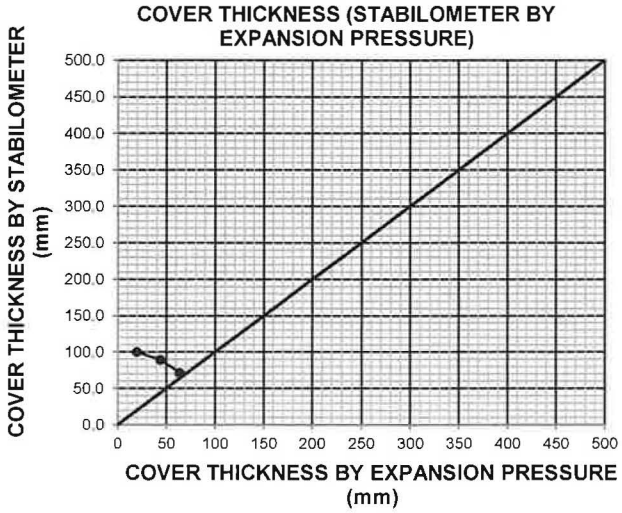
☑ CT-301 ☐ ASTM-D2844

PROJECT NAME:	Norcal: Patriot Development Partners (22775-21)	PROJECT NUMBER:	L-210901
SAMPLE LOCATION:	NWC of 3rd St and Central Ave, Highland, CA	SAMPLE NUMBER:	T1
SAMPLE DESCRIPTION:	SILTY SAND (SM), brown	SAMPLE DEPTH:	2.0'
SAMPLED BY:	Norcal 9/14/21	TESTED BY:	ER
		DATE TESTED:	9/15/2021

TEST SPECIMEN	A	B	C
MOISTURE AT COMPACTION %	11.5	10.8	10.1
WEIGHT OF SAMPLE, grams	1050	1041	1033
HEIGHT OF SAMPLE, Inches	2.41	2.40	2.39
DRY DENSITY, pcf	118.5	118.7	119.0
COMPACTOR AIR PRESSURE, psi	350	350	350
EXUDATION PRESSURE, psi	179	387	535
EXPANSION, Inches x 10exp-4	5	11	16
STABILITY Ph 2,000 lbs (160 psi)	23	18	16
TURNS DISPLACEMENT	5.61	5.87	5.38
R-VALUE UNCORRECTED	73	77	81
R-VALUE CORRECTED	72	75	80
EXPANSION PRESSURE (psf)	21.6	47.5	69.1







R-VALUE AT EQUILIBRIUM:	74

R-VALUE BY EXUDATION PRESSURE:	74
R-VALUE BY EXPANSION PRESSURE:	N.A.
EXPANSION PRESSURE AT 300 PSI EXUDATION:	35
TRAFFIC INDEX (Assumed):	5.5
GRAVEL FACTOR (Assumed):	1.5
UNIT MASS OF COVER MATERIAL, kg/m^3 (Assumed):	2100.0

Appendix C
Seismic Design Report

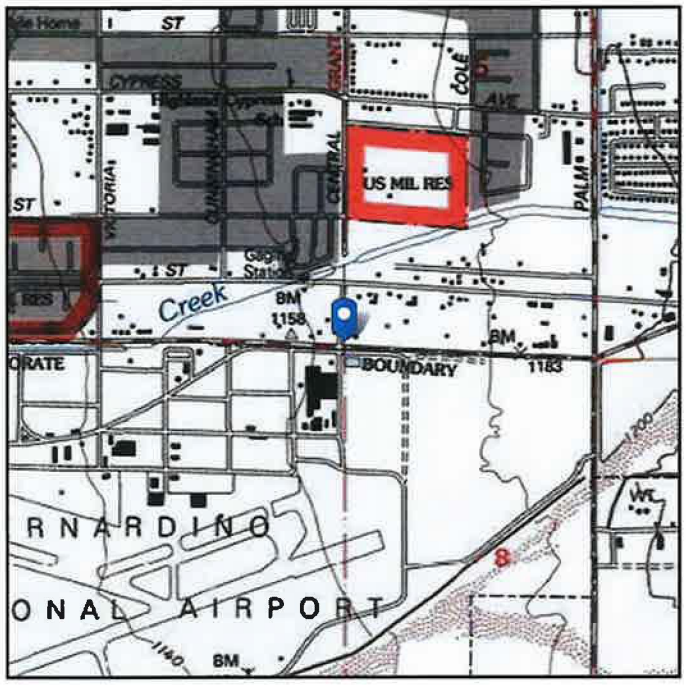
NorCal Engineering

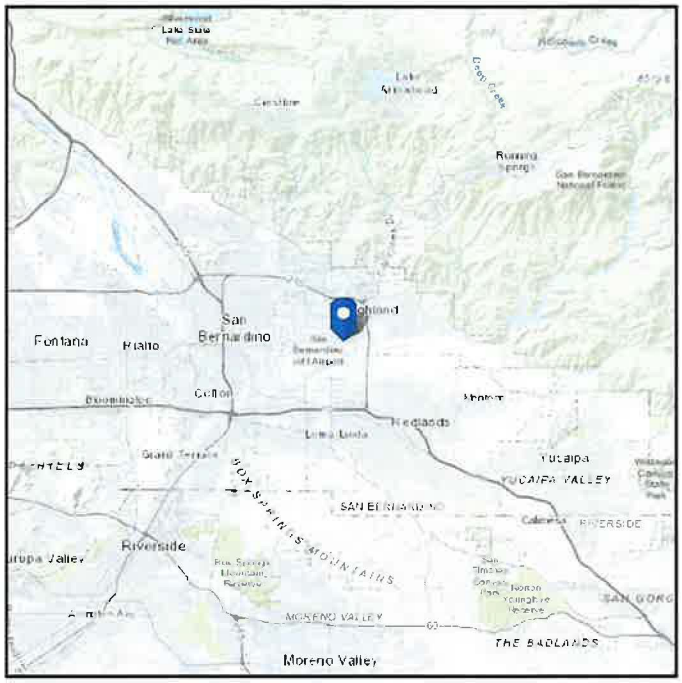
ASCE 7 Hazards Report

Address:
3rd St & Central Ave
Highland, California
92346

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 0 ft (NAVD 88)
Latitude: 34.10655
Longitude: -117.2176





ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

Site Soil Class: D - Stiff Soil

Results:

S_S :	2.32	S_{D1} :	N/A
S_1 :	0.861	T_L :	8
F_a :	1	PGA :	0.956
F_v :	N/A	PGA_M :	1.051
S_{MS} :	2.32	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1
S_{DS} :	1.547	C_v :	1.5

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Mon Oct 04 2021

Date Source: USGS Seismic Design Maps

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Appendix D
Soil Infiltration Data

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Project: Patriot Development Partners
Project No.: 22775-21
Date: 9/14/21
Test No. 1
Depth: 5'
Tested By: D.R.

TIME (hr/min)	CHANGE TIME (min)	CUMULATIVE TIME (min)	INNER RING READING (cm)	INNER RING CHANGE	INNER RING FLOW (cc)	OUTER RING READING (cm)	OUTER RING CHANGE	OUTER RING FLOW (cc)	INNER RING INF RATE (cm/hr)	OUTER RING INF RATE (cm/hr)	INNER RING INF RATE (ft/hr)
7:52			101.0			42.5					
7:54	2	2	110.0	9.0		52.0	9.5				
7:54			100.5			42.0					
7:56	2	4	110.0	9.5		51.2	9.2				
7:56			97.3			41.2					
7:58	2	6	107.5	10.2		49.5	8.3				
7:58			99.0			40.7					
8:00	2	8	107.1	8.1		49.0	8.3				
8:00			99.1			40.7					
8:02	2	10	106.7	7.6		48.6	7.9				
8:02			98.9			41.0					
8:04	2	12	106.4	7.5		48.1	7.1				
8:04			99.3			41.7					
8:06	2	14	107.0	7.7		49.3	7.6		231.0	228.0	
8:06			99.5			41.1					
8:08	2	16	106.8	7.3		48.2	7.1		219.0	213.0	
8:08			98.9			40.7					
8:10	2	18	106.1	7.2		47.9	7.2		216.0	216.0	
8:10			99.3			40.8					
8:12	2	20	105.9	6.6		47.6	6.8		198.0	204.0	
8:12			99.1			41.0					
8:14	2	22	106.2	7.1		48.3	7.3		213.0	219.0	
8:14			98.0			39.7					
8:16	2	24	105.0	7.0		46.7	7.0		210.0	210.0	

Average = 214.5 / 215.0 cm/hr

NORCAL ENGINEERING

SOILS AND GEOTECHNICAL CONSULTANTS

Project: Patriot Development Partners
Project No.: 22775-21
Date: 9/14/21
Test No. 2
Depth: 10'
Tested By: D.R.

TIME (hr/min)	CHANGE TIME (min)	CUMULATIVE TIME (min)	INNER RING READING (cm)	INNER RING CHANGE	INNER RING FLOW (cc)	OUTER RING READING (cm)	OUTER RING CHANGE	OUTER RING FLOW (cc)	INNER RING INF RATE (cm/hr)	OUTER RING INF RATE (cm/hr)	INNER RING INF RATE (ft/hr)
9:27			102.0			39.6					
9:29	2	2	107.9	5.9		45.5	5.9				
9:29			97.6			40.3					
9:31	2	4	101.8	4.2		45.3	5.0				
9:31			100.5			39.1					
9:33	2	6	104.0	3.5		44.0	4.9				
9:33			99.1			37.9					
9:35	2	8	102.7	3.6		43.0	5.1				
9:35			98.1			47.5					
9:37	2	10	101.7	3.6		52.4	4.9				
9:37			98.9			39.9					
9:39	2	12	102.5	4.0		44.8	4.9				
9:39			99.0			38.7					
9:41	2	14	102.7	3.7		43.8	5.1		111.0	153.0	
9:41			98.6			37.7					
9:43	2	16	102.7	4.1		42.5	4.8		123.0	144.0	
9:43			98.4			36.9					
9:45	2	18	102.9	4.5		42.9	6.0		135.0	180.0	
9:45			98.4			38.3					
9:47	2	20	102.5	4.1		42.3	4.0		123.0	120.0	
9:47			99.5			37.7					
9:49	2	22	103.7	4.2		43.3	5.6		126.0	168.0	
9:49			97.7			37.7					
9:51	2	24	102.3	4.6		42.7	5.0		138.0	150.0	

Average = 126.0 / 152.5 cm/hr

VII.4.1. Site Suitability Considerations

Suitability assessment related considerations include (**Table VII.3**):

- Soil assessment methods – the site assessment extent (e.g., number of borings, test pits, etc.) and the measurement method used to estimate the short-term infiltration rate.
- Predominant soil texture/percent fines – soil texture and the percent of fines can greatly influence the potential for clogging.
- Site soil variability – site with spatially heterogeneous soils (vertically or horizontally) as determined from site investigations are more difficult to estimate average properties for resulting in a higher level of uncertainty associated with initial estimates.
- Depth to seasonal high groundwater/impervious layer – groundwater mounding may become an issue during excessively wet conditions where shallow aquifers or shallow clay lenses are present.

Table VII.3: Suitability Assessment Related Considerations for Infiltration Facility Safety Factors

Consideration	High Concern	Medium Concern	Low Concern	
Assessment methods (see explanation below)	Use of soil survey maps or simple texture analysis to estimate short-term infiltration rates	Direct measurement of ≥ 20 percent of infiltration area with localized infiltration measurement methods (e.g., infiltrometer)	Direct measurement of ≥ 50 percent of infiltration area with localized infiltration measurement methods or Use of extensive test pit infiltration measurement methods	Per infiltration report in Attachment D
Texture Class	Silty and clayey soils with significant fines	Loamy soils	Granular to slightly loamy soils	Per infiltration report in Attachment D
Site soil variability	Highly variable soils indicated from site assessment or limited soil borings collected during site assessment	Soil borings/test pits indicate moderately homogeneous soils	Multiple soil borings/test pits indicate relatively homogeneous soils	Per infiltration report in Attachment D
Depth to groundwater/ impervious layer	<5 ft below facility bottom	5-10 ft below facility bottom	>10 below facility bottom	Per infiltration report in Attachment D

Localized infiltration testing refers to methods such as the double ring infiltrometer test (ASTM D3385-88) which measure infiltration rates over an area less than 10 sq-ft, may include lateral

flow, and do not attempt to account for heterogeneity of soil. The amount of area each test represents should be estimated depending on the observed heterogeneity of the soil.

Extensive infiltration testing refers to methods that include excavating a significant portion of the proposed infiltration area, filling the excavation with water, and monitoring drawdown. The excavation should be to the depth of the proposed infiltration surface and ideally be at least 50 to 100 square feet.

In all cases, testing should be conducted in the area of the proposed BMP where, based on review of available geotechnical data, soils appear least likely to support infiltration.

VII.4.2. Design Related Considerations

Design related considerations include (**Table VII.4**):

- Size of area tributary to facility – all things being equal, risk factors related to infiltration facilities increase with an increase in the tributary area served. Therefore facilities serving larger tributary areas should use more restrictive adjustment factors.
- Level of pretreatment/expected influent sediment loads – credit should be given for good pretreatment by allowing less restrictive factors to account for the reduced probability of clogging from high sediment loading. Also, facilities designed to capture runoff from relatively clean surfaces such as rooftops are likely to see low sediment loads and therefore should be allowed to apply less restrictive safety factors.
- Redundancy – facilities that consist of multiple subsystems operating in parallel such that parts of the system remains functional when other parts fail and/or bypass should be rewarded for the built-in redundancy with less restrictive correction and safety factors. For example, if bypass flows would be at least partially treated in another BMP, the risk of discharging untreated runoff in the event of clogging the primary facility is reduced. A bioretention facility that overflows to a landscaped area is another example.
- Compaction during construction – proper construction oversight is needed during construction to ensure that the bottoms of infiltration facility are not overly compacted. Facilities that do not commit to proper construction practices and oversight should have to use more restrictive correction and safety factors.

Table VII.4: Design Related Considerations for Infiltration Facility Safety Factors

Consideration	High Concern	Medium Concern	Low Concern
Tributary area size	Greater than 10 acres.	Greater than 2 acres but less than 10 acres.	2 acres or less.
Level of pretreatment/ expected influent sediment loads	Pretreatment from gross solids removal devices only, such as hydrodynamic separators, racks and screens AND tributary area includes landscaped areas, steep slopes, high traffic areas, or any other areas expected to produce high sediment, trash, or debris loads.	Good pretreatment with BMPs that mitigate coarse sediments such as vegetated swales AND influent sediment loads from the tributary area are expected to be relatively low (e.g., low traffic, mild slopes, disconnected impervious areas, etc.).	Excellent pretreatment with BMPs that mitigate fine sediments such as bioretention or media filtration OR sedimentation or facility only treats runoff from relatively clean surfaces, such as rooftops.
Redundancy of treatment	No redundancy in BMP treatment train.	Medium redundancy, other BMPs available in treatment train to maintain at least 50% of function of facility in event of failure.	High redundancy, multiple components capable of operating independently and in parallel, maintaining at least 90% of facility functionality in event of failure.
Compaction during construction	Construction of facility on a compacted site or elevated probability of unintended/ indirect compaction.	Medium probability of unintended/ indirect compaction.	Heavy equipment actively prohibited from infiltration areas during construction and low probability of unintended/ indirect compaction.

3 acres

CDS Units will be provided in all on-site storm drain as a pre-treatment control BMP prior to allowing runoff to be conveyed to the primary treatment BMP. The CDS Units will remove large debris, trash, sediment and oil/grease from the runoff before outleting into the on-site infiltration systems. See Attachment B for CDS Unit and catch basin filter specifications & calculations.

The soil in the proposed infiltration system footprints will be uncompacted in-place native material.

Specific project site pollutants that will be treated by these Flogard Filter Systems are as follows: Fine TSS - 85%, Dissolved Phosphorus - 69%, Copper 95%, Lead - 87%, Zinc - 95%, Oil and Grease - 90-95%, Fecal Coliform (bacteria) - 68%. Bio-Clean filter has multi-level screening and hydrocarbon media captures everything from oil and grease to sediments, to foliage and litter. According to Bio-Clean Stormwater Catch Basin Filtration Device Specification 03.01.02, "The SCBFD will remove and retain debris, sediments, metals, nutrients, oxygen demanding substances, bacteria and hydrocarbons entering the filter during frequent storm events and specified flow rates." See Attachment B for catch basin filter specification.

VII.4.3. Determining Factor of Safety

A factor of safety shall be used. To assist in selecting the appropriate design infiltration rate, the measured short term infiltration rate should be adjusted using a weighted average of several safety factors using the worksheet shown in **Worksheet H** below. The design infiltration rate would be determined as follows:

1. For each consideration shown in **Table VII.3** and **Table VII.4** above, determine whether the consideration is a high, medium, or low concern.
2. For all high concerns, assign a factor value of 3, for medium concerns, assign a factor value of 2, and for low concerns assign a factor value of 1.
3. Multiply each of the factors by the corresponding weight to get a product.
4. Sum the products within each factor category to obtain a safety factor for each.
5. Multiply the two safety factors together to get the final combined safety factor. If the combined safety factor is less than 2, then 2 shall be used as the safety factor.
6. Divide the measured short term infiltration rate by the combined safety factor to obtain the adjusted design infiltration rate for use in sizing the infiltration facility.

The design infiltration rate shall be used to size BMPs and to evaluate their expected long term performance. This rate shall not be less than 2, but may be higher at the discretion of the design engineer.

Worksheet H: Factor of Safety and Design Infiltration Rate and Worksheet

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	2	0.50
		Predominant soil texture	0.25	1	0.25
		Site soil variability	0.25	1	0.25
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.25
B	Design	Tributary area size	0.25	2	0.50
		Level of pretreatment/ expected sediment loads	0.25	2	0.50
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	1	0.25
		Design Safety Factor, $S_B = \Sigma p$			2.00
Combined Safety Factor, $S_{TOT} = S_A \times S_B$					2.5, use 5
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)					*50.4
Design Infiltration Rate, in/hr, K_{DESIGN} = ~~$S_{TOT} \times K_M$~~ $K_M \div S_{TOT}$					10.1 in/hr, use 2.4 in/hr

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

*See Attachment D for Infiltration Report for infiltration rate. Infiltration rate 2.4 in/hr will be used per CASQA guidance.

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

VII.5. References

ASTM D 3385-94, 2003. "Standard Test Method for Infiltration Rate of Soils Field Using Double-Ring Infiltrometer." American Society for Testing Materials, Conshohocken, PA. 10 Jun, 2003.

Caltrans, 2003. "Infiltration Basin Site Selection". Study Volume I. California Department of Transportation. Report No. CTSW-RT-03-025.

City of Portland, 2010. *Appendix F.2: Infiltration Testing.* Portland Stormwater Management Manual, Revised February 1, 2010.

United States Department of the Interior, Bureau of Reclamation (USBR), 1990a, "Procedure for Performing Field Permeability Testing by the Well Permeameter Method (USBR 7300-89)," in Earth Manual, Part 2, A Water Resources Technical Publication, 3rd ed., Bureau of Reclamation, Denver, Colo.

Attachment E

Maintenance Agreement and Inspection Guidelines

This section will be provide in Final WQMP

Appendix F-2

Preliminary Drainage Report

PRELIMINARY DRAINAGE REPORT

For

3rd at Central Industrial

APN: 1192-561-11, -15, -16, -17, -18, -19, -20, -21

PROJECT LOCATION

Northwest Corner of 3rd Street & Central Avenue
Highland, California

PREPARED FOR

Patriot Development Partners
12126 W. Sunset Blvd.
Los Angeles, CA 90049
(858) 952-4134

PREPARED BY

HUITT-ZOLLARS

Huitt-Zollars, Inc.
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Ontario, Ca 91764
Ph: (909) 941-7799
Fax: (909) 941-7789

Ryan Peng, P.E.
C77887, Exp 06/30/2023

PREPARATION DATE

02/24/2022

HZ PROJECT NUMBER

R314509.01

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Introduction
The project is a new development of an industrial facility located at the northwest corner of 3rd Street and Central Avenue in Highland, California. Proposed building is approximately 54,460 square feet on approximately 3.02 acres. Currently the west portion of the site is for used car-parking yard and east portion of the site is vacant.

Purpose
The purpose of this preliminary report is to present the drainage concept for the project and to determine the design flow rates and estimate storm drain sizes that will be needed for the proposed development. The drainage maps (Appendix A) and calculations reflect the tributary areas and 100-year storm event runoff flows (Q100).

Existing Condition
The west portion of the site is for used car-parking yard and the east portion is vacant with scattered grass. The site slopes down by approximately 1% from the northeast corner to the southwest corner toward to 3rd Street that has about seven (7) feet of fall. Existing runoff sheet flows onto the 3rd Street and discharge to 3rd Street Storm Drain system, City Creek Channel, Santa Ana River, and finally enter to Prado Basin. See Appendix A for existing drainage map and Appendix E for existing drainage facilities.

Proposed Condition
The proposed post-development drainage pattern preserves the existing drainage pattern. See Appendix A for the proposed on-site hydrology map. For the proposed development, all onsite runoff will be directed to the onsite underground infiltration/detention system on the west side of the site. The underground infiltration system is designed to mitigate peak 100-year stormwater flow increase resulting from the development. The overflow from the infiltration system will be directed through a proposed 8" drain pipe that connect to the existing curb inlet in 3rd Street and discharge to the 3rd Street Storm Drain System.

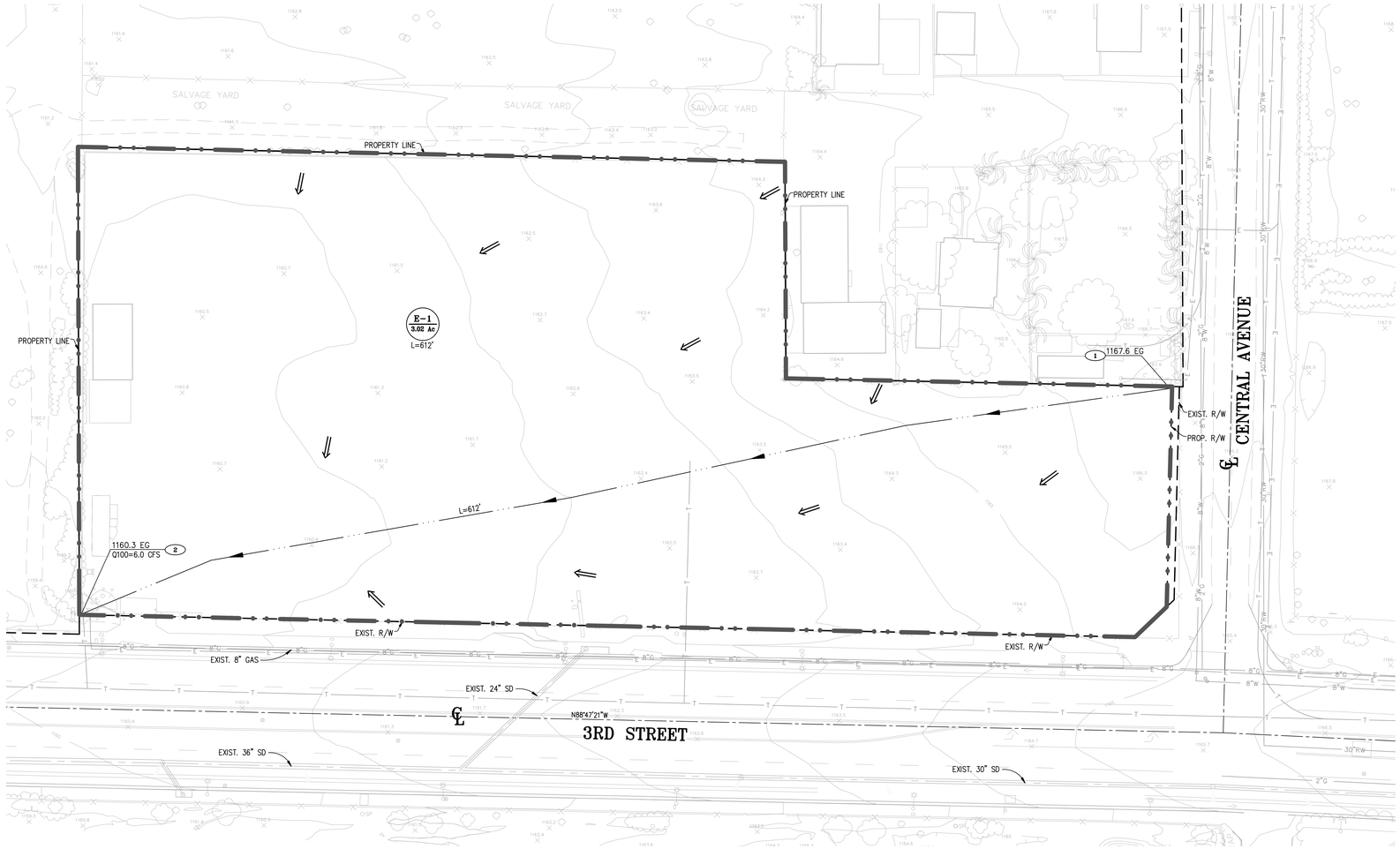
Hydrologic Analysis
A hydrologic analysis was prepared using the methodology outlined in the San Bernardino County Flood Control District (SBCFCD) Hydrology Manual. A rational method analysis was completed for existing and proposed 100-year storm event using Civild software, version 7.1. Unit Hydrograph and Basin Routing analyses were also completed using Civild software.

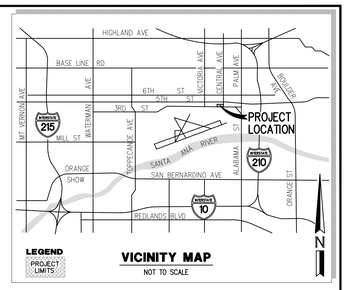
The 100-year 1-hour storm depth was taken from the isohyetal maps in the County of San Bernardino Hydrology Manual. The site's hydrologic soils type is "A" and was taken from San Bernardino County's Stormwater Facility Mapping Tool. For the proposed development's hydrologic analysis, a commercial land use was used with an AMC of 3. See Appendix D for hydrologic soils type and isohyetal maps.

Discussion
According to the hydrologic and basin routing analysis for existing and proposed conditions, the results indicate the proposed Q100 will be mitigated and detained on-site in the underground system and the resulting discharge to the 3rd Street Storm Drain System will be less than the existing Q100 (5.1 CFS < 6.0 CFS).

See Appendix B for hydrologic analysis and Appendix C for basin routing summary, unit hydrograph, and basin routing analyses. All proposed drainage and storm drain facilities will be sized adequately for Q100 and calculations will be provided in the final drainage report.

Appendix A
Preliminary Drainage Maps
100 Year Storm Event – Existing Condition
100 Year Storm Event – Proposed Condition





LEGEND

- NO. — HYDROLOGY MODEL NODE NUMBER
- E-1 / 7.40 Ac — TRIBUTARY AREA IN ACRES
- 612' — LENGTH OF FLOW
- DRAINAGE BOUNDARY
- FLOW DIRECTION

N

0 15 30 60 90

SCALE 1" = 30'

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PRELIMINARY HYDROLOGY STUDY
EXISTING CONDITION
3RD AT CENTRAL INDUSTRIAL
CITY OF HIGHLAND

HUITT-ZOLLARS
HUITT-ZOLLARS, INC.
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7799

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DRAWN BY	R.P.
CHECKED BY	D.W.
FIELD BOOK	
SHEET	1 OF 1 SHEETS
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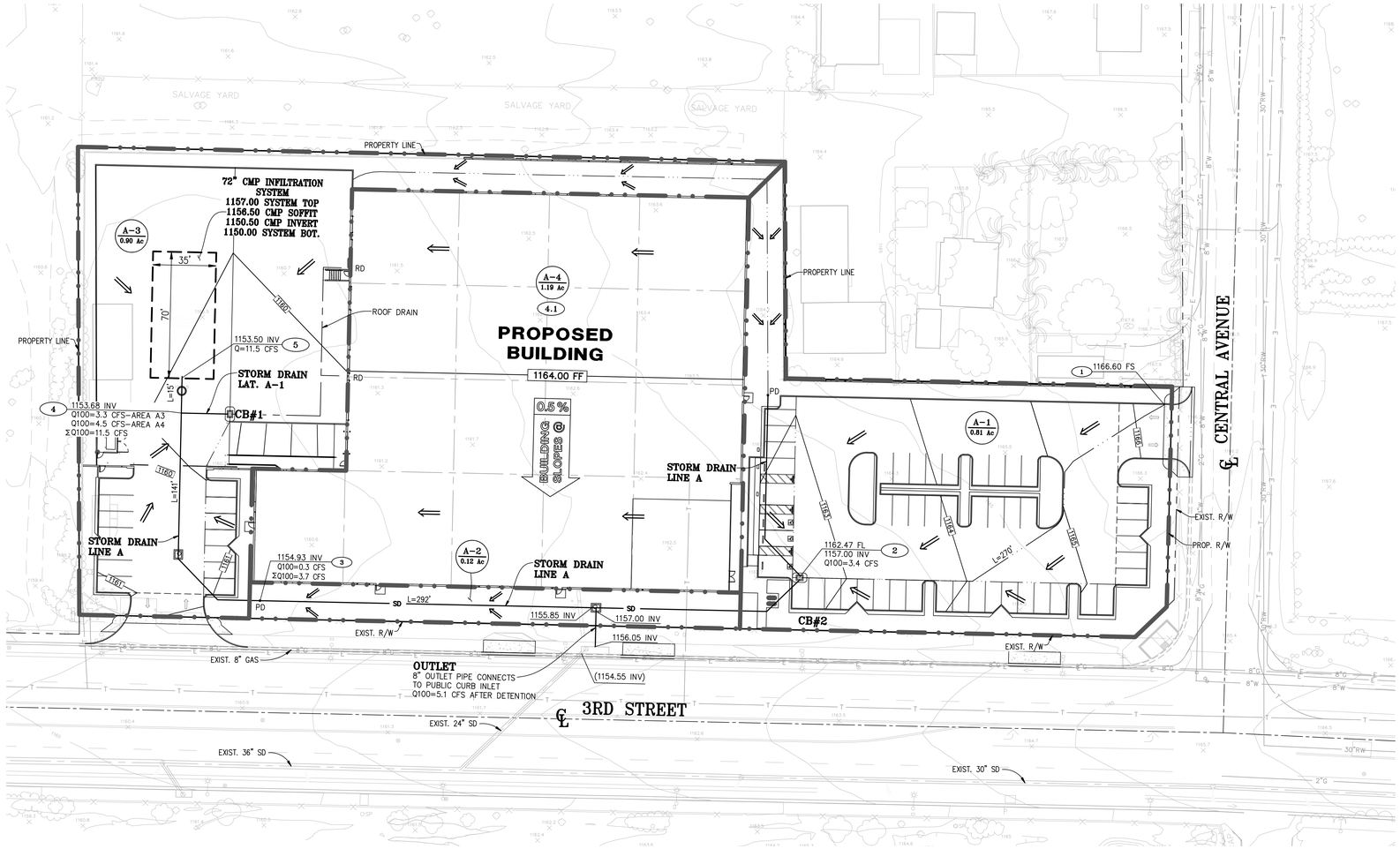
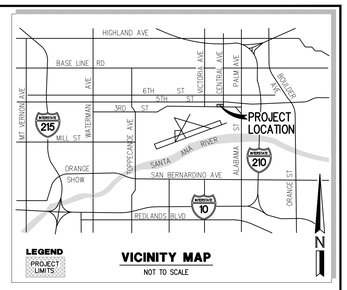
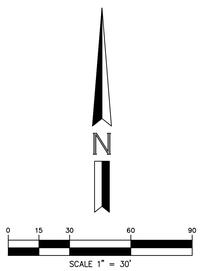




LEGEND

- NO. — HYDROLOGY MODEL NODE NUMBER
- A-11 / 7.40 Ac — TRIBUTARY AREA IN ACRES
- 673' — LENGTH OF FLOW
- DRAINAGE BOUNDARY
- DRAINAGE INLET/CATCH BASIN (CB)
- SD — PROPOSED STORM DRAIN
- CB — CATCH BASIN
- PD — PLANTER DRAIN
- RD — ROOF DRAIN
- FLOW DIRECTION



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PRELIMINARY HYDROLOGY STUDY
EXISTING CONDITION
3RD AT CENTRAL INDUSTRIAL
CITY OF HIGHLAND

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Appendix B
100-year Rational Method Hydrologic Analysis
Existing Condition
Proposed Condition

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2005 Version 7.1
Rational Hydrology Study Date: 12/03/21

PATRIOT - 3RD AT CENTRAL INDUSTRIAL
100 YR STORM EVENT - EXISTING CONDITION
4509Q100EX
SD

Program License Serial Number 6145

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.280 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 3

++
Process from Point/Station 1.000 to Point/Station 2.000
**** INITIAL AREA EVALUATION ****

RESIDENTIAL(2.5 acre lot)
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 32.00
Adjusted SCS curve number for AMC 3 = 52.00
Pervious ratio(Ap) = 0.9000 Max loss rate(Fm)= 0.707(In/Hr)
Initial subarea data:
Initial area flow distance = 612.000(Ft.)
Top (of initial area) elevation = 1167.600(Ft.)
Bottom (of initial area) elevation = 1160.300(Ft.)
Difference in elevation = 7.300(Ft.)
Slope = 0.01193 s(%)= 1.19
TC = k(0.487)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 15.379 min.
Rainfall intensity = 2.897(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.680
Subarea runoff = 5.953(CFS)
Total initial stream area = 3.020(Ac.)
Pervious area fraction = 0.900
Initial area Fm value = 0.707(In/Hr)
End of computations, Total Study Area = 3.02 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.900
Area averaged SCS curve number = 32.0

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2005 Version 7.1
Rational Hydrology Study Date: 12/09/21

PATRIOT - 3RD AT CENTRAL INDUSTRIAL
100 YR STORM EVENT - PROPOSED CONDITION
4509Q100P
SD

Program License Serial Number 6145

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.280 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 3

++
Process from Point/Station 1.000 to Point/Station 2.000
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 32.00
Adjusted SCS curve number for AMC 3 = 52.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.079(In/Hr)
Initial subarea data:
Initial area flow distance = 270.000(Ft.)
Top (of initial area) elevation = 1166.600(Ft.)
Bottom (of initial area) elevation = 1162.470(Ft.)
Difference in elevation = 4.010(Ft.)
Slope = 0.01485 s(%)= 1.49
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 6.623 min.
Rainfall intensity = 4.802(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.885
Subarea runoff = 3.444(CFS)
Total initial stream area = 0.810(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.079(In/Hr)

++
Process from Point/Station 2.000 to Point/Station 3.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 1157.000(Ft.)
Downstream point/station elevation = 1154.930(Ft.)
Pipe length = 292.00(Ft.) Manning's N = 0.012
No. of pipes = 1 Required pipe flow = 3.444(CFS)

```
Nearest computed pipe diameter  =     12.00(In.)
Calculated individual pipe flow  =     3.444(CFS)
Normal flow depth in pipe =    8.66(In.)
Flow top width inside pipe =   10.76(In.)
Critical Depth =    9.52(In.)
Pipe flow velocity =      5.68(Ft/s)
Travel time through pipe =    0.86 min.
Time of concentration (TC) =     7.48 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        3.000
**** SUBAREA FLOW ADDITION ****
______________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 32.00
Adjusted SCS curve number for AMC 3 = 52.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.079(In/Hr)
Time of concentration =     7.48 min.
Rainfall intensity =      4.464(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.884
Subarea runoff =      0.227(CFS) for    0.120(Ac.)
Total runoff =      3.671(CFS)
Effective area this stream =        0.93(Ac.)
Total Study Area (Main Stream No. 1) =        0.93(Ac.)
Area averaged Fm value =    0.079(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        3.000 to Point/Station        4.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________
Upstream point/station elevation =  1154.930(Ft.)
Downstream point/station elevation =  1153.680(Ft.)
Pipe length  =   141.00(Ft.)   Manning's N = 0.012
No. of pipes = 1  Required pipe flow  =     3.671(CFS)
Nearest computed pipe diameter  =     15.00(In.)
Calculated individual pipe flow  =     3.671(CFS)
Normal flow depth in pipe =    8.00(In.)
Flow top width inside pipe =   14.97(In.)
Critical Depth =    9.29(In.)
Pipe flow velocity =      5.51(Ft/s)
Travel time through pipe =    0.43 min.
Time of concentration (TC) =     7.91 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        4.000 to Point/Station        4.000
**** SUBAREA FLOW ADDITION ****
______________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 32.00
Adjusted SCS curve number for AMC 3 = 52.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.079(In/Hr)
```

```
Time of concentration =     7.91 min.
Rainfall intensity =      4.318(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.884
Subarea runoff =      3.312(CFS) for    0.900(Ac.)
Total runoff =      6.983(CFS)
Effective area this stream =        1.83(Ac.)
Total Study Area (Main Stream No. 1) =        1.83(Ac.)
Area averaged Fm value =    0.079(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        4.100 to Point/Station        4.000
**** SUBAREA FLOW ADDITION ****
______________________________________________________________________
COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 32.00
Adjusted SCS curve number for AMC 3 = 52.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.079(In/Hr)
Time of concentration =     7.91 min.
Rainfall intensity =      4.318(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.884
Subarea runoff =      4.541(CFS) for    1.190(Ac.)
Total runoff =     11.524(CFS)
Effective area this stream =        3.02(Ac.)
Total Study Area (Main Stream No. 1) =        3.02(Ac.)
Area averaged Fm value =    0.079(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station        4.000 to Point/Station        5.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
______________________________________________________________________
Upstream point/station elevation =  1153.680(Ft.)
Downstream point/station elevation =  1153.500(Ft.)
Pipe length  =    15.00(Ft.)   Manning's N = 0.012
No. of pipes = 1  Required pipe flow  =    11.524(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =    11.524(CFS)
Normal flow depth in pipe =   13.66(In.)
Flow top width inside pipe =   15.39(In.)
Critical Depth =   15.52(In.)
Pipe flow velocity =      8.01(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =     7.94 min.
End of computations, Total Study Area =            3.02 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number =  32.0
```

Appendix C
100-year Existing & Proposed Unit Hydrograph Studies
Infiltration/ Detention System Basin Routing Studies

3rd at Central Industrial

Detention/ Infiltration System Routing Study Summary

Stage Storage Table

#	Depth	Elevation	Area (sf)	Incremental volume (cf)	Total Volume (cf)	Total Volume (acre-ft)	Outflow Q	Notes
1	0.0	1,150.00	2,106	0	0	0		**Bottom of 72" CMP Infiltration/ Detention System**
2	0.5	1,150.50	2,106	490	490	0.011	0.56	**Invert of 72" CMP**
3	1.5	1,151.50	2,106	1,519	2,009	0.046	0.56	
4	2.5	1,152.50	2,106	1,877	3,886	0.089	0.56	
5	3.5	1,153.50	2,106	2,004	5,890	0.135	0.56	
6	4.5	1,154.50	2,106	2,004	7,894	0.181	0.56	
7	5.5	1,155.50	2,106	1,877	9,771	0.224	0.56	***Meets WQMP DCV**
8	6.5	1,156.50	2,106	1,519	11,290	0.259	0.56	**Soffit of 72" CMP / *Meets WQMP DCV**
9	7.0	1,157.00	2,106	490	11,780	0.270	0.56	**Top of Infiltration/ Detention System Release overflow @ 8" drain pipe**
10	7.5	1,157.50	2,106	0	11,780	0.270	3.34	
11	8.0	1,158.00	2,106	0	11,780	0.270	6.12	
72" CMP system with 6" rock top & bottom.								

Infiltration rate per geotechnical report = 50.4"/hr, Factor of Safety =5.

Unit convert = (50.4"/hr)/5 x (1'/12") X (1hr/60min) X (1 min/60 sec) = 0.00023 ft/sec

Underground Basin open area is 35' x 70' = 2,450 sf

Therefore, Q out for basin = 2,450 X 0.00023 = 0.56 cfs

*WQMP Design Capture Volume is 9,936 CF

Q OutFlow = 12' Drain Pipe+ Basin Infiltration Q

= (CA x (2gh)^(1/2)) + Basin Infiltration Q

= (0.6A x (64.4xh)^(1/2)) + Basin Infiltration Q

A = 8" drain pipe area

h = Water Height Above half of pipe (4")

Example: WSE @ 1158

={0.6 x (3.14 x .67)^2)x [64.4 x (1158-1157.33)]^(1/2)} + 0.56

= 6.12 cfs

Basin Routing Summary Table

100 YEAR STORM		
Max. Q Out (CFS)	**5.7**	5.1 CFS to public street, 0.6 CFS into the ground
WSE	**1157.92**	Underground System Top: 1157.00

Allowable discharge 6.0 CFS (from Existing Unit Hydrograph).

Date: 2/3/2022
Project Name: 72 CMP System - 11992 (2-3-2022 21-12-37)

City / County: San Bernardino
State: CA

Designed By: Ryan Peng
Company: Huitt-Zollars, Inc
Telephone: 909-941-7799

CMP: Underground Detention System Storage Volume Estimation

=Adjustable Input Cells

Contech Engineered Solutions, LLC is pleased to offer the following estimate of storage volume for the above named project. The results are submitted as an estimate only, without liability on the part of Contech Engineered Solutions, LLC for accuracy or suitability to any particular applicaton and are subject to verification of the Engineer of Record. **This tool is only applicable for rectangular shaped systems.**

Summary of Inputs

System Information		Backfill Information		Pipe & Analysis Information	
Out-to-out length (ft):	68.0	Backfill Porosity (%):	40%	System Diameter (in):	72
Out-to-out width (ft):	33.0	Depth Above Pipe (in):	6.0	Pipe Spacing (in):	36
Number of Manifolds (ea):	2.0	Depth Below Pipe (in):	6.0	Incremental Analysis (in):	6
Number of Barrels (ea):	4.0	Width At Ends (ft):	1.0	System Invert (Elevation):	1150
		Width At Sides (ft):	1.0		

Storage Volume Estimation

System		Pipe		Stone		Total System		Miscellaneous	
Depth (ft)	Elevation (ft)	Incremental Storage (cf)	Cumulative Storage (cf)	Incremental Storage (cf)	Cumulative Storage (cf)	Incremental Storage (cf)	Cumulative Storage (cf)	Percent Open Storage (%)	Ave. Surface Area (sf)
0.00	1150.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0%	980.0
0.50	1150.50	0.0	0.0	490.0	490.0	490.0	490.0	0.0%	980.0
1.00	1151.00	326.4	326.4	359.5	849.5	685.8	1,175.8	27.8%	1,557.1
1.50	1151.50	571.9	898.3	261.2	1,110.7	833.1	2,009.0	44.7%	1,758.2
2.00	1152.00	704.8	1,603.0	208.1	1,318.8	912.9	2,921.8	54.9%	1,884.1
2.50	1152.50	789.5	2,392.6	174.2	1,493.0	963.7	3,885.5	61.6%	1,964.3
3.00	1153.00	841.3	3,233.8	153.5	1,646.5	994.8	4,880.3	66.3%	2,009.4
3.50	1153.50	866.0	4,099.8	143.6	1,790.1	1,009.6	5,889.9	69.6%	2,024.0
4.00	1154.00	866.0	4,965.7	143.6	1,933.7	1,009.6	6,899.4	72.0%	2,009.4
4.50	1154.50	841.3	5,807.0	153.5	2,087.2	994.8	7,894.2	73.6%	1,964.3
5.00	1155.00	789.5	6,596.5	174.2	2,261.4	963.7	8,857.9	74.5%	1,884.1
5.50	1155.50	704.8	7,301.3	208.1	2,469.5	912.9	9,770.8	74.7%	1,758.2
6.00	1156.00	571.9	7,873.2	261.2	2,730.7	833.1	10,603.9	74.2%	1,557.1
6.50	1156.50	326.4	8,199.6	359.5	3,090.2	685.8	11,289.7	72.6%	980.0
7.00	1157.00	0.0	8,199.6	490.0	3,580.2	490.0	11,779.7	69.6%	980.0

These results are submitted to you as a guideline only, without liability on the part of CONTECH Engineered Solutions, LLC for accuracy or suitability to any particular application, and are subject to your verification.

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 - 2004, Version 7.0

Study date 12/09/21

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6145

3rd at Central Industrial
100 YEAR STORM EVENT - EXISTING UNITHYDROGRAPH
4509E100UH
RP

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.02	1	1.28
Rainfall data for year 100		
3.02	6	2.56
Rainfall data for year 100		
3.02	24	5.70

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
32.0	52.0	3.02	1.000	0.785	0.900	0.707

Area-averaged adjusted loss rate Fm (In/Hr) = 0.707

********* Area-Averaged low loss rate fraction, Yb **********

Area	Area	SCS CN	SCS CN	S	Pervious

(Ac.)	Fract	(AMC2)	(AMC3)		Yield Fr
2.72	0.900	32.0	52.0	9.23	0.199
0.30	0.100	98.0	98.0	0.20	0.958

Area-averaged catchment yield fraction, Y = 0.275
Area-averaged low loss fraction, Yb = 0.725
User entry of time of concentration = 0.189 (hours)
++
Watershed area = 3.02(Ac.)
Catchment Lag time = 0.151 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 55.1146
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.707(In/Hr)
Average low loss rate fraction (Yb) = 0.725 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.474(In)
Computed peak 30-minute rainfall = 0.970(In)
Specified peak 1-hour rainfall = 1.280(In)
Computed peak 3-hour rainfall = 1.958(In)
Specified peak 6-hour rainfall = 2.560(In)
Specified peak 24-hour rainfall = 5.700(In)

Rainfall depth area reduction factors:
Using a total area of 3.02(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.474(In)
30-minute factor = 1.000 Adjusted rainfall = 0.970(In)
1-hour factor = 1.000 Adjusted rainfall = 1.280(In)
3-hour factor = 1.000 Adjusted rainfall = 1.958(In)
6-hour factor = 1.000 Adjusted rainfall = 2.560(In)
24-hour factor = 1.000 Adjusted rainfall = 5.700(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 36.52 (CFS))		
1	7.145	2.610
2	37.471	11.076
3	65.463	10.223
4	76.824	4.150
5	83.227	2.338
6	87.623	1.606
7	90.809	1.164
8	93.106	0.839
9	94.853	0.638
10	96.318	0.535
11	97.415	0.401
12	98.269	0.312
13	98.889	0.227
14	99.440	0.201
15	100.000	0.101

Total soil rain loss = 3.77(In)
Total effective rainfall = 1.93(In)
Peak flow rate in flood hydrograph = 5.97(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       0.0001      0.01  Q          |         |         |         |
  0+10       0.0004      0.04  Q          |         |         |         |
  0+15       0.0009      0.08  Q          |         |         |         |
  0+20       0.0015      0.09  Q          |         |         |         |
  0+25       0.0021      0.10  Q          |         |         |         |
  0+30       0.0028      0.10  Q          |         |         |         |
  0+35       0.0036      0.11  Q          |         |         |         |
  0+40       0.0043      0.11  Q          |         |         |         |
  0+45       0.0051      0.11  Q          |         |         |         |
  0+50       0.0058      0.11  Q          |         |         |         |
  0+55       0.0066      0.11  Q          |         |         |         |
  1+ 0       0.0074      0.12  Q          |         |         |         |
  1+ 5       0.0082      0.12  Q          |         |         |         |
  1+10       0.0090      0.12  Q          |         |         |         |
  1+15       0.0098      0.12  Q          |         |         |         |
  1+20       0.0106      0.12  Q          |         |         |         |
  1+25       0.0115      0.12  Q          |         |         |         |
  1+30       0.0123      0.12  QV         |         |         |         |
  1+35       0.0131      0.12  QV         |         |         |         |
  1+40       0.0139      0.12  QV         |         |         |         |
  1+45       0.0147      0.12  QV         |         |         |         |
  1+50       0.0156      0.12  QV         |         |         |         |
  1+55       0.0164      0.12  QV         |         |         |         |
  2+ 0       0.0172      0.12  QV         |         |         |         |
  2+ 5       0.0180      0.12  QV         |         |         |         |
  2+10       0.0189      0.12  QV         |         |         |         |
  2+15       0.0197      0.12  QV         |         |         |         |
  2+20       0.0205      0.12  QV         |         |         |         |
  2+25       0.0214      0.12  QV         |         |         |         |
  2+30       0.0222      0.12  QV         |         |         |         |
  2+35       0.0230      0.12  QV         |         |         |         |
  2+40       0.0239      0.12  QV         |         |         |         |
  2+45       0.0247      0.12  Q V        |         |         |         |
  2+50       0.0256      0.12  Q V        |         |         |         |
  2+55       0.0264      0.12  Q V        |         |         |         |
  3+ 0       0.0273      0.12  Q V        |         |         |         |
  3+ 5       0.0281      0.12  Q V        |         |         |         |
  3+10       0.0290      0.12  Q V        |         |         |         |
  3+15       0.0299      0.12  Q V        |         |         |         |
  3+20       0.0307      0.13  Q V        |         |         |         |
  3+25       0.0316      0.13  Q V        |         |         |         |
  3+30       0.0325      0.13  Q V        |         |         |         |
  3+35       0.0333      0.13  Q V        |         |         |         |
  3+40       0.0342      0.13  Q V        |         |         |         |
  3+45       0.0351      0.13  Q V        |         |         |         |
  3+50       0.0359      0.13  Q V        |         |         |         |
  3+55       0.0368      0.13  Q  V       |         |         |         |
  4+ 0       0.0377      0.13  Q  V       |         |         |         |
  4+ 5       0.0386      0.13  Q  V       |         |         |         |
  4+10       0.0395      0.13  Q  V       |         |         |         |
  4+15       0.0404      0.13  Q  V       |         |         |         |
  4+20       0.0413      0.13  Q  V       |         |         |         |
  4+25       0.0422      0.13  Q  V       |         |         |         |
```

4+30	0.0430	0.13	Q	V			
4+35	0.0439	0.13	Q	V			
4+40	0.0448	0.13	Q	V			
4+45	0.0458	0.13	Q	V			
4+50	0.0467	0.13	Q	V			
4+55	0.0476	0.13	Q	V			
5+ 0	0.0485	0.13	Q	V			
5+ 5	0.0494	0.13	Q	V			
5+10	0.0503	0.13	Q	V			
5+15	0.0512	0.13	Q	V			
5+20	0.0522	0.13	Q	V			
5+25	0.0531	0.13	Q	V			
5+30	0.0540	0.14	Q	V			
5+35	0.0550	0.14	Q	V			
5+40	0.0559	0.14	Q	V			
5+45	0.0568	0.14	Q	V			
5+50	0.0578	0.14	Q	V			
5+55	0.0587	0.14	Q	V			
6+ 0	0.0597	0.14	Q	V			
6+ 5	0.0606	0.14	Q	V			
6+10	0.0616	0.14	Q	V			
6+15	0.0626	0.14	Q	V			
6+20	0.0635	0.14	Q	V			
6+25	0.0645	0.14	Q	V			
6+30	0.0655	0.14	Q	V			
6+35	0.0664	0.14	Q	V			
6+40	0.0674	0.14	Q	V			
6+45	0.0684	0.14	Q	V			
6+50	0.0694	0.14	Q	V			
6+55	0.0704	0.14	Q	V			
7+ 0	0.0713	0.14	Q	V			
7+ 5	0.0723	0.14	Q	V			
7+10	0.0733	0.15	Q	V			
7+15	0.0743	0.15	Q	V			
7+20	0.0754	0.15	Q	V			
7+25	0.0764	0.15	Q	V			
7+30	0.0774	0.15	Q	V			
7+35	0.0784	0.15	Q	V			
7+40	0.0794	0.15	Q	V			
7+45	0.0805	0.15	Q	V			
7+50	0.0815	0.15	Q	V			
7+55	0.0825	0.15	Q	V			
8+ 0	0.0836	0.15	Q	V			
8+ 5	0.0846	0.15	Q	V			
8+10	0.0857	0.15	Q	V			
8+15	0.0867	0.15	Q	V			
8+20	0.0878	0.15	Q	V			
8+25	0.0888	0.15	Q	V			
8+30	0.0899	0.16	Q	V			
8+35	0.0910	0.16	Q	V			
8+40	0.0921	0.16	Q	V			
8+45	0.0931	0.16	Q	V			
8+50	0.0942	0.16	Q	V			
8+55	0.0953	0.16	Q	V			
9+ 0	0.0964	0.16	Q	V			
9+ 5	0.0975	0.16	Q	V			
9+10	0.0986	0.16	Q	V			
9+15	0.0997	0.16	Q	V			
9+20	0.1009	0.16	Q	V			
9+25	0.1020	0.16	Q	V			
9+30	0.1031	0.16	Q	V			
9+35	0.1043	0.17	Q	V			
9+40	0.1054	0.17	Q	V			

```
 9+45       0.1066      0.17  Q        V |          |          |          |
 9+50       0.1077      0.17  Q        V |          |          |          |
 9+55       0.1089      0.17  Q        V |          |          |          |
10+ 0       0.1101      0.17  Q         V|          |          |          |
10+ 5       0.1112      0.17  Q         V|          |          |          |
10+10       0.1124      0.17  Q         V|          |          |          |
10+15       0.1136      0.17  Q         V|          |          |          |
10+20       0.1148      0.17  Q         V|          |          |          |
10+25       0.1160      0.17  Q         V|          |          |          |
10+30       0.1172      0.18  Q         V|          |          |          |
10+35       0.1184      0.18  Q         V|          |          |          |
10+40       0.1197      0.18  Q         V|          |          |          |
10+45       0.1209      0.18  Q         V|          |          |          |
10+50       0.1221      0.18  Q          V          |          |          |
10+55       0.1234      0.18  Q          V          |          |          |
11+ 0       0.1246      0.18  Q          V          |          |          |
11+ 5       0.1259      0.18  Q          V          |          |          |
11+10       0.1272      0.19  Q          V          |          |          |
11+15       0.1285      0.19  Q          V          |          |          |
11+20       0.1298      0.19  Q          V          |          |          |
11+25       0.1311      0.19  Q          V          |          |          |
11+30       0.1324      0.19  Q          V          |          |          |
11+35       0.1337      0.19  Q          |V         |          |          |
11+40       0.1350      0.19  Q          |V         |          |          |
11+45       0.1364      0.19  Q          |V         |          |          |
11+50       0.1377      0.20  Q          |V         |          |          |
11+55       0.1391      0.20  Q          |V         |          |          |
12+ 0       0.1405      0.20  Q          |V         |          |          |
12+ 5       0.1418      0.20  Q          |V         |          |          |
12+10       0.1431      0.18  Q          |V         |          |          |
12+15       0.1442      0.16  Q          |V         |          |          |
12+20       0.1452      0.15  Q          |V         |          |          |
12+25       0.1463      0.15  Q          | V        |          |          |
12+30       0.1473      0.15  Q          | V        |          |          |
12+35       0.1483      0.15  Q          | V        |          |          |
12+40       0.1494      0.15  Q          | V        |          |          |
12+45       0.1504      0.15  Q          | V        |          |          |
12+50       0.1515      0.15  Q          | V        |          |          |
12+55       0.1525      0.15  Q          | V        |          |          |
13+ 0       0.1536      0.16  Q          | V        |          |          |
13+ 5       0.1547      0.16  Q          | V        |          |          |
13+10       0.1558      0.16  Q          | V        |          |          |
13+15       0.1569      0.16  Q          | V        |          |          |
13+20       0.1581      0.17  Q          |  V       |          |          |
13+25       0.1593      0.17  Q          |  V       |          |          |
13+30       0.1604      0.17  Q          |  V       |          |          |
13+35       0.1616      0.18  Q          |  V       |          |          |
13+40       0.1629      0.18  Q          |  V       |          |          |
13+45       0.1641      0.18  Q          |  V       |          |          |
13+50       0.1654      0.19  Q          |  V       |          |          |
13+55       0.1667      0.19  Q          |  V       |          |          |
14+ 0       0.1681      0.19  Q          |  V       |          |          |
14+ 5       0.1694      0.20  Q          |  V       |          |          |
14+10       0.1708      0.20  Q          |   V      |          |          |
14+15       0.1723      0.21  Q          |   V      |          |          |
14+20       0.1738      0.21  Q          |   V      |          |          |
14+25       0.1753      0.22  Q          |   V      |          |          |
14+30       0.1768      0.23  Q          |   V      |          |          |
14+35       0.1784      0.23  Q          |   V      |          |          |
14+40       0.1801      0.24  Q          |   V      |          |          |
14+45       0.1818      0.25  Q          |    V     |          |          |
14+50       0.1836      0.26  |Q         |    V     |          |          |
14+55       0.1854      0.27  |Q         |    V     |          |          |
```

```
15+ 0       0.1873      0.28  |Q         |    V    |         |         |
15+ 5       0.1893      0.29  |Q         |    V    |         |         |
15+10       0.1914      0.30  |Q         |    V    |         |         |
15+15       0.1936      0.32  |Q         |    V    |         |         |
15+20       0.1960      0.34  |Q         |     V   |         |         |
15+25       0.1984      0.36  |Q         |     V   |         |         |
15+30       0.2011      0.39  |Q         |     V   |         |         |
15+35       0.2040      0.42  |Q         |     V   |         |         |
15+40       0.2071      0.46  |Q         |      V  |         |         |
15+45       0.2106      0.51  | Q        |      V  |         |         |
15+50       0.2146      0.57  | Q        |      V  |         |         |
15+55       0.2196      0.72  | Q        |       V |         |         |
16+ 0       0.2279      1.21  |   Q      |       V |         |         |
16+ 5       0.2474      2.84  |          |Q        V         |         |
16+10       0.2885      5.97  |          |         |  Q      |         |
16+15       0.3245      5.23  |          |         Q     V   |         |
16+20       0.3426      2.63  |         Q         |       V |         |
16+25       0.3544      1.71  |      Q   |         |        V|         |
16+30       0.3633      1.29  |     Q    |         |         V         |
16+35       0.3703      1.01  |    Q     |         |         V         |
16+40       0.3759      0.81  |   Q      |         |         |V        |
16+45       0.3805      0.68  | Q        |         |         |V        |
16+50       0.3846      0.59  | Q        |         |         |V        |
16+55       0.3881      0.50  | Q        |         |         | V       |
17+ 0       0.3910      0.43  |Q         |         |         | V       |
17+ 5       0.3936      0.37  |Q         |         |         | V       |
17+10       0.3959      0.33  |Q         |         |         | V       |
17+15       0.3978      0.27  |Q         |         |         | V       |
17+20       0.3992      0.22 Q          |         |         | V       |
17+25       0.4006      0.20 Q          |         |         |  V      |
17+30       0.4020      0.19 Q          |         |         |  V      |
17+35       0.4032      0.18 Q          |         |         |  V      |
17+40       0.4045      0.18 Q          |         |         |  V      |
17+45       0.4056      0.17 Q          |         |         |  V      |
17+50       0.4068      0.16 Q          |         |         |  V      |
17+55       0.4078      0.16 Q          |         |         |  V      |
18+ 0       0.4089      0.15 Q          |         |         |  V      |
18+ 5       0.4100      0.15 Q          |         |         |  V      |
18+10       0.4111      0.17 Q          |         |         |  V      |
18+15       0.4124      0.19 Q          |         |         |   V     |
18+20       0.4137      0.19 Q          |         |         |   V     |
18+25       0.4150      0.19 Q          |         |         |   V     |
18+30       0.4163      0.19 Q          |         |         |   V     |
18+35       0.4176      0.19 Q          |         |         |   V     |
18+40       0.4189      0.19 Q          |         |         |   V     |
18+45       0.4202      0.19 Q          |         |         |   V     |
18+50       0.4215      0.18 Q          |         |         |   V     |
18+55       0.4227      0.18 Q          |         |         |   V     |
19+ 0       0.4240      0.18 Q          |         |         |    V    |
19+ 5       0.4252      0.18 Q          |         |         |    V    |
19+10       0.4264      0.18 Q          |         |         |    V    |
19+15       0.4276      0.17 Q          |         |         |    V    |
19+20       0.4288      0.17 Q          |         |         |    V    |
19+25       0.4300      0.17 Q          |         |         |    V    |
19+30       0.4311      0.17 Q          |         |         |    V    |
19+35       0.4323      0.17 Q          |         |         |    V    |
19+40       0.4334      0.17 Q          |         |         |    V    |
19+45       0.4346      0.16 Q          |         |         |    V    |
19+50       0.4357      0.16 Q          |         |         |    V    |
19+55       0.4368      0.16 Q          |         |         |     V   |
20+ 0       0.4379      0.16 Q          |         |         |     V   |
20+ 5       0.4389      0.16 Q          |         |         |     V   |
20+10       0.4400      0.16 Q          |         |         |     V   |
```

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   20+15       0.4411      0.15  Q          |          |          |      V    |
   20+20       0.4421      0.15  Q          |          |          |      V    |
   20+25       0.4432      0.15  Q          |          |          |      V    |
   20+30       0.4442      0.15  Q          |          |          |      V    |
   20+35       0.4452      0.15  Q          |          |          |      V    |
   20+40       0.4463      0.15  Q          |          |          |      V    |
   20+45       0.4473      0.15  Q          |          |          |      V    |
   20+50       0.4483      0.15  Q          |          |          |       V   |
   20+55       0.4493      0.14  Q          |          |          |       V   |
   21+ 0       0.4503      0.14  Q          |          |          |       V   |
   21+ 5       0.4512      0.14  Q          |          |          |       V   |
   21+10       0.4522      0.14  Q          |          |          |       V   |
   21+15       0.4532      0.14  Q          |          |          |       V   |
   21+20       0.4541      0.14  Q          |          |          |       V   |
   21+25       0.4551      0.14  Q          |          |          |       V   |
   21+30       0.4560      0.14  Q          |          |          |       V   |
   21+35       0.4570      0.14  Q          |          |          |       V   |
   21+40       0.4579      0.14  Q          |          |          |       V   |
   21+45       0.4588      0.13  Q          |          |          |       V   |
   21+50       0.4597      0.13  Q          |          |          |       V   |
   21+55       0.4607      0.13  Q          |          |          |        V  |
   22+ 0       0.4616      0.13  Q          |          |          |        V  |
   22+ 5       0.4625      0.13  Q          |          |          |        V  |
   22+10       0.4634      0.13  Q          |          |          |        V  |
   22+15       0.4643      0.13  Q          |          |          |        V  |
   22+20       0.4652      0.13  Q          |          |          |        V  |
   22+25       0.4660      0.13  Q          |          |          |        V  |
   22+30       0.4669      0.13  Q          |          |          |        V  |
   22+35       0.4678      0.13  Q          |          |          |        V  |
   22+40       0.4687      0.13  Q          |          |          |        V  |
   22+45       0.4695      0.13  Q          |          |          |        V  |
   22+50       0.4704      0.12  Q          |          |          |        V  |
   22+55       0.4712      0.12  Q          |          |          |        V  |
   23+ 0       0.4721      0.12  Q          |          |          |         V|
   23+ 5       0.4729      0.12  Q          |          |          |         V|
   23+10       0.4738      0.12  Q          |          |          |         V|
   23+15       0.4746      0.12  Q          |          |          |         V|
   23+20       0.4754      0.12  Q          |          |          |         V|
   23+25       0.4763      0.12  Q          |          |          |         V|
   23+30       0.4771      0.12  Q          |          |          |         V|
   23+35       0.4779      0.12  Q          |          |          |         V|
   23+40       0.4787      0.12  Q          |          |          |         V|
   23+45       0.4795      0.12  Q          |          |          |         V|
   23+50       0.4804      0.12  Q          |          |          |         V|
   23+55       0.4812      0.12  Q          |          |          |         V|
   24+ 0       0.4820      0.12  Q          |          |          |         V|
   24+ 5       0.4827      0.11  Q          |          |          |         V|
   24+10       0.4832      0.07  Q          |          |          |         V|
   24+15       0.4835      0.04  Q          |          |          |         V|
   24+20       0.4837      0.03  Q          |          |          |         V|
   24+25       0.4838      0.02  Q          |          |          |         V|
   24+30       0.4839      0.01  Q          |          |          |         V|
   24+35       0.4840      0.01  Q          |          |          |         V|
   24+40       0.4840      0.01  Q          |          |          |         V|
   24+45       0.4841      0.01  Q          |          |          |         V|
   24+50       0.4841      0.00  Q          |          |          |         V|
   24+55       0.4841      0.00  Q          |          |          |         V|
   25+ 0       0.4841      0.00  Q          |          |          |         V|
   25+ 5       0.4841      0.00  Q          |          |          |         V|
   25+10       0.4841      0.00  Q          |          |          |          V
-----------------------------------------------------------------------------
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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 12/09/21

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6145

3rd at Central Industrial
100 YEAR STORM EVENT - PROPOSED UNITHYDROGRAPH
4509P100UH
RP

Storm Event Year = 100

Antecedent Moisture Condition = 3

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.02	1	1.28
Rainfall data for year 100		
3.02	6	2.56
Rainfall data for year 100		
3.02	24	5.70

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******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 3)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
32.0	52.0	3.02	1.000	0.785	0.100	0.079

Area-averaged adjusted loss rate Fm (In/Hr) = 0.079

********* Area-Averaged low loss rate fraction, Yb **********

Area	Area	SCS CN	SCS CN	S	Pervious

```
 (Ac.)      Fract         (AMC2)    (AMC3)           Yield Fr
    0.30   0.100         32.0      52.0       9.23     0.199
    2.72   0.900         98.0      98.0       0.20     0.958

Area-averaged catchment yield fraction, Y =  0.882
Area-averaged low loss fraction, Yb =  0.118
User entry of time of concentration  =   0.121 (hours)
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Watershed area =       3.02(Ac.)
Catchment Lag time =   0.097 hours
Unit interval =   5.000 minutes
Unit interval percentage of lag time = 86.0882
Hydrograph baseflow =     0.00(CFS)
Average maximum watershed loss rate(Fm) =  0.079(In/Hr)
Average low loss rate fraction (Yb) = 0.118 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall =  0.474(In)
Computed peak 30-minute rainfall =  0.970(In)
Specified peak 1-hour rainfall =  1.280(In)
Computed peak 3-hour rainfall =  1.958(In)
Specified peak 6-hour rainfall =  2.560(In)
Specified peak 24-hour rainfall =  5.700(In)


Rainfall depth area reduction factors:
Using a total area of       3.02(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000     Adjusted rainfall =  0.474(In)
30-minute factor = 1.000    Adjusted rainfall =  0.970(In)
1-hour factor = 1.000       Adjusted rainfall =  1.280(In)
3-hour factor = 1.000       Adjusted rainfall =  1.958(In)
6-hour factor = 1.000       Adjusted rainfall =  2.560(In)
24-hour factor = 1.000      Adjusted rainfall =  5.700(In)
----------------------------------------------------------------------

                    U n i t  H y d r o g r a p h
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Interval          'S' Graph          Unit Hydrograph
Number            Mean values             ((CFS))
----------------------------------------------------------------------
             (K =        36.52 (CFS))

  1               12.973                   4.738
  2               69.324                  20.581
  3               95.650                   9.615
  4               99.222                   1.305
  5              100.000                   0.284
----------------------------------------------------------------------
----------------------------------------------------------------------
----------------------------------------------------------------------
Total soil rain loss =      0.59(In)
Total effective rainfall =      5.11(In)
Peak flow rate in flood hydrograph =     11.56(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        5.0      10.0      15.0      20.0
----------------------------------------------------------------------
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0+ 5	0.0003	0.05	Q			
0+10	0.0021	0.26	Q			
0+15	0.0045	0.35	Q			
0+20	0.0070	0.37	Q			
0+25	0.0096	0.37	Q			
0+30	0.0122	0.37	Q			
0+35	0.0147	0.37	Q			
0+40	0.0173	0.37	Q			
0+45	0.0199	0.37	Q			
0+50	0.0225	0.37	Q			
0+55	0.0250	0.38	Q			
1+ 0	0.0276	0.38	Q			
1+ 5	0.0302	0.38	Q			
1+10	0.0328	0.38	QV			
1+15	0.0355	0.38	QV			
1+20	0.0381	0.38	QV			
1+25	0.0407	0.38	QV			
1+30	0.0433	0.38	QV			
1+35	0.0460	0.38	QV			
1+40	0.0486	0.38	QV			
1+45	0.0513	0.38	QV			
1+50	0.0539	0.39	QV			
1+55	0.0566	0.39	QV			
2+ 0	0.0592	0.39	QV			
2+ 5	0.0619	0.39	QV			
2+10	0.0646	0.39	Q V			
2+15	0.0673	0.39	Q V			
2+20	0.0700	0.39	Q V			
2+25	0.0727	0.39	Q V			
2+30	0.0754	0.39	Q V			
2+35	0.0781	0.39	Q V			
2+40	0.0809	0.40	Q V			
2+45	0.0836	0.40	Q V			
2+50	0.0863	0.40	Q V			
2+55	0.0891	0.40	Q V			
3+ 0	0.0918	0.40	Q V			
3+ 5	0.0946	0.40	Q V			
3+10	0.0974	0.40	Q V			
3+15	0.1001	0.40	Q V			
3+20	0.1029	0.40	Q V			
3+25	0.1057	0.41	Q V			
3+30	0.1085	0.41	Q V			
3+35	0.1113	0.41	Q V			
3+40	0.1141	0.41	Q V			
3+45	0.1169	0.41	Q V			
3+50	0.1198	0.41	Q V			
3+55	0.1226	0.41	Q V			
4+ 0	0.1255	0.41	Q V			
4+ 5	0.1283	0.41	Q V			
4+10	0.1312	0.42	Q V			
4+15	0.1341	0.42	Q V			
4+20	0.1369	0.42	Q V			
4+25	0.1398	0.42	Q V			
4+30	0.1427	0.42	Q V			
4+35	0.1456	0.42	Q V			
4+40	0.1485	0.42	Q V			
4+45	0.1515	0.42	Q V			
4+50	0.1544	0.43	Q V			
4+55	0.1573	0.43	Q V			
5+ 0	0.1603	0.43	Q V			
5+ 5	0.1633	0.43	Q V			
5+10	0.1662	0.43	Q V			
5+15	0.1692	0.43	Q V			

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 5+20       0.1722      0.43  Q    V    |          |          |
 5+25       0.1752      0.44  Q    V    |          |          |
 5+30       0.1782      0.44  Q    V    |          |          |
 5+35       0.1812      0.44  Q    V    |          |          |
 5+40       0.1843      0.44  Q    V    |          |          |
 5+45       0.1873      0.44  Q    V    |          |          |
 5+50       0.1904      0.44  Q    V    |          |          |
 5+55       0.1934      0.44  Q     V   |          |          |
 6+ 0       0.1965      0.45  Q     V   |          |          |
 6+ 5       0.1996      0.45  Q     V   |          |          |
 6+10       0.2027      0.45  Q     V   |          |          |
 6+15       0.2058      0.45  Q     V   |          |          |
 6+20       0.2089      0.45  Q     V   |          |          |
 6+25       0.2120      0.45  Q     V   |          |          |
 6+30       0.2151      0.46  Q     V   |          |          |
 6+35       0.2183      0.46  Q     V   |          |          |
 6+40       0.2215      0.46  Q     V   |          |          |
 6+45       0.2246      0.46  Q     V   |          |          |
 6+50       0.2278      0.46  Q      V  |          |          |
 6+55       0.2310      0.46  Q      V  |          |          |
 7+ 0       0.2342      0.47  Q      V  |          |          |
 7+ 5       0.2374      0.47  Q      V  |          |          |
 7+10       0.2407      0.47  Q      V  |          |          |
 7+15       0.2439      0.47  Q      V  |          |          |
 7+20       0.2472      0.47  Q      V  |          |          |
 7+25       0.2505      0.48  Q      V  |          |          |
 7+30       0.2537      0.48  Q      V  |          |          |
 7+35       0.2570      0.48  Q       V |          |          |
 7+40       0.2604      0.48  Q       V |          |          |
 7+45       0.2637      0.48  Q       V |          |          |
 7+50       0.2670      0.49  Q       V |          |          |
 7+55       0.2704      0.49  Q       V |          |          |
 8+ 0       0.2737      0.49  Q       V |          |          |
 8+ 5       0.2771      0.49  Q       V |          |          |
 8+10       0.2805      0.49  Q       V |          |          |
 8+15       0.2839      0.50  Q       V |          |          |
 8+20       0.2874      0.50  Q       V |          |          |
 8+25       0.2908      0.50  |Q       V|          |          |
 8+30       0.2943      0.50  |Q       V|          |          |
 8+35       0.2977      0.50  |Q       V|          |          |
 8+40       0.3012      0.51  |Q       V|          |          |
 8+45       0.3048      0.51  |Q       V|          |          |
 8+50       0.3083      0.51  |Q       V|          |          |
 8+55       0.3118      0.51  |Q       V|          |          |
 9+ 0       0.3154      0.52  |Q       V|          |          |
 9+ 5       0.3190      0.52  |Q       V|          |          |
 9+10       0.3226      0.52  |Q        V          |          |
 9+15       0.3262      0.52  |Q        V          |          |
 9+20       0.3298      0.53  |Q        V          |          |
 9+25       0.3335      0.53  |Q        V          |          |
 9+30       0.3371      0.53  |Q        V          |          |
 9+35       0.3408      0.54  |Q        V          |          |
 9+40       0.3445      0.54  |Q        V          |          |
 9+45       0.3483      0.54  |Q        V          |          |
 9+50       0.3520      0.54  |Q        V          |          |
 9+55       0.3558      0.55  |Q         |V         |          |
10+ 0       0.3596      0.55  |Q         |V         |          |
10+ 5       0.3634      0.55  |Q         |V         |          |
10+10       0.3672      0.56  |Q         |V         |          |
10+15       0.3711      0.56  |Q         |V         |          |
10+20       0.3750      0.56  |Q         |V         |          |
10+25       0.3789      0.57  |Q         |V         |          |
10+30       0.3828      0.57  |Q         |V         |          |
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10+35       0.3868      0.57  |Q         | V       |         |         |
10+40       0.3907      0.58  |Q         | V       |         |         |
10+45       0.3948      0.58  |Q         | V       |         |         |
10+50       0.3988      0.59  |Q         | V       |         |         |
10+55       0.4028      0.59  |Q         | V       |         |         |
11+ 0       0.4069      0.59  |Q         | V       |         |         |
11+ 5       0.4111      0.60  |Q         | V       |         |         |
11+10       0.4152      0.60  |Q         | V       |         |         |
11+15       0.4194      0.61  |Q         |  V      |         |         |
11+20       0.4236      0.61  |Q         |  V      |         |         |
11+25       0.4278      0.61  |Q         |  V      |         |         |
11+30       0.4321      0.62  |Q         |  V      |         |         |
11+35       0.4364      0.62  |Q         |  V      |         |         |
11+40       0.4407      0.63  |Q         |  V      |         |         |
11+45       0.4451      0.63  |Q         |  V      |         |         |
11+50       0.4495      0.64  |Q         |   V     |         |         |
11+55       0.4539      0.64  |Q         |   V     |         |         |
12+ 0       0.4584      0.65  |Q         |   V     |         |         |
12+ 5       0.4627      0.63  |Q         |   V     |         |         |
12+10       0.4662      0.51  |Q         |   V     |         |         |
12+15       0.4694      0.46  Q          |   V     |         |         |
12+20       0.4725      0.46  Q          |   V     |         |         |
12+25       0.4757      0.46  Q          |   V     |         |         |
12+30       0.4789      0.47  Q          |   V     |         |         |
12+35       0.4822      0.47  Q          |    V    |         |         |
12+40       0.4855      0.48  Q          |    V    |         |         |
12+45       0.4889      0.49  Q          |    V    |         |         |
12+50       0.4923      0.50  Q          |    V    |         |         |
12+55       0.4957      0.50  |Q         |    V    |         |         |
13+ 0       0.4993      0.51  |Q         |    V    |         |         |
13+ 5       0.5028      0.52  |Q         |    V    |         |         |
13+10       0.5065      0.53  |Q         |    V    |         |         |
13+15       0.5102      0.54  |Q         |    V    |         |         |
13+20       0.5139      0.55  |Q         |     V   |         |         |
13+25       0.5178      0.56  |Q         |     V   |         |         |
13+30       0.5217      0.57  |Q         |     V   |         |         |
13+35       0.5257      0.58  |Q         |     V   |         |         |
13+40       0.5297      0.59  |Q         |     V   |         |         |
13+45       0.5339      0.60  |Q         |     V   |         |         |
13+50       0.5381      0.62  |Q         |     V   |         |         |
13+55       0.5425      0.63  |Q         |     V   |         |         |
14+ 0       0.5469      0.65  |Q         |      V  |         |         |
14+ 5       0.5515      0.66  |Q         |      V  |         |         |
14+10       0.5561      0.68  |Q         |      V  |         |         |
14+15       0.5609      0.69  |Q         |      V  |         |         |
14+20       0.5659      0.72  |Q         |      V  |         |         |
14+25       0.5709      0.73  |Q         |      V  |         |         |
14+30       0.5761      0.76  |Q         |      V  |         |         |
14+35       0.5815      0.78  |Q         |       V |         |         |
14+40       0.5871      0.81  |Q         |       V |         |         |
14+45       0.5928      0.84  |Q         |       V |         |         |
14+50       0.5988      0.87  |Q         |       V |         |         |
14+55       0.6050      0.90  |Q         |       V |         |         |
15+ 0       0.6115      0.94  |Q         |        V|         |         |
15+ 5       0.6183      0.98  |Q         |        V|         |         |
15+10       0.6255      1.04  | Q        |        V|         |         |
15+15       0.6330      1.09  | Q        |        V|         |         |
15+20       0.6410      1.16  | Q        |        V|         |         |
15+25       0.6495      1.24  | Q        |         V         |         |
15+30       0.6589      1.36  | Q        |         V         |         |
15+35       0.6692      1.48  | Q        |         V         |         |
15+40       0.6805      1.64  |  Q       |          |V       |         |
15+45       0.6931      1.83  |  Q       |          |V       |         |
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15+50       0.7079      2.16  |   Q     |         | V       |         |
15+55       0.7259      2.61  |    Q    |         | V       |         |
16+ 0       0.7506      3.59  |      Q  |         |  V      |         |
16+ 5       0.7940      6.30  |         | Q       |   V     |         |
16+10       0.8736     11.56  |         |         |  Q   V  |         |
16+15       0.9196      6.68  |         |  Q      |      V |         |
16+20       0.9388      2.79  |    Q    |         |       V|         |
16+25       0.9514      1.83  |  Q      |         |       V|         |
16+30       0.9610      1.39  | Q       |         |       V|         |
16+35       0.9692      1.19  | Q       |         |        V         |
16+40       0.9764      1.05  | Q       |         |        V         |
16+45       0.9830      0.95  |Q        |         |        V         |
16+50       0.9891      0.88  |Q        |         |        V         |
16+55       0.9947      0.82  |Q        |         |        V         |
17+ 0       0.9999      0.76  |Q        |         |        |V        |
17+ 5       1.0049      0.72  |Q        |         |        |V        |
17+10       1.0096      0.68  |Q        |         |        |V        |
17+15       1.0141      0.65  |Q        |         |        |V        |
17+20       1.0183      0.62  |Q        |         |        |V        |
17+25       1.0224      0.59  |Q        |         |        |V        |
17+30       1.0263      0.57  |Q        |         |        |V        |
17+35       1.0301      0.55  |Q        |         |        | V       |
17+40       1.0338      0.53  |Q        |         |        | V       |
17+45       1.0373      0.51  |Q        |         |        | V       |
17+50       1.0407      0.50  Q         |         |        | V       |
17+55       1.0441      0.48  Q         |         |        | V       |
18+ 0       1.0473      0.47  Q         |         |        | V       |
18+ 5       1.0506      0.48  Q         |         |        | V       |
18+10       1.0547      0.60  |Q        |         |        | V       |
18+15       1.0591      0.64  |Q        |         |        | V       |
18+20       1.0635      0.64  |Q        |         |        |  V      |
18+25       1.0679      0.63  |Q        |         |        |  V      |
18+30       1.0722      0.62  |Q        |         |        |  V      |
18+35       1.0764      0.61  |Q        |         |        |  V      |
18+40       1.0805      0.60  |Q        |         |        |  V      |
18+45       1.0846      0.59  |Q        |         |        |  V      |
18+50       1.0886      0.59  |Q        |         |        |  V      |
18+55       1.0926      0.58  |Q        |         |        |   V     |
19+ 0       1.0966      0.57  |Q        |         |        |   V     |
19+ 5       1.1005      0.56  |Q        |         |        |   V     |
19+10       1.1043      0.56  |Q        |         |        |   V     |
19+15       1.1081      0.55  |Q        |         |        |   V     |
19+20       1.1119      0.55  |Q        |         |        |   V     |
19+25       1.1156      0.54  |Q        |         |        |   V     |
19+30       1.1192      0.53  |Q        |         |        |   V     |
19+35       1.1229      0.53  |Q        |         |        |   V     |
19+40       1.1265      0.52  |Q        |         |        |    V    |
19+45       1.1300      0.52  |Q        |         |        |    V    |
19+50       1.1336      0.51  |Q        |         |        |    V    |
19+55       1.1371      0.51  |Q        |         |        |    V    |
20+ 0       1.1405      0.50  |Q        |         |        |    V    |
20+ 5       1.1440      0.50  Q         |         |        |    V    |
20+10       1.1474      0.49  Q         |         |        |    V    |
20+15       1.1507      0.49  Q         |         |        |    V    |
20+20       1.1541      0.49  Q         |         |        |    V    |
20+25       1.1574      0.48  Q         |         |        |     V   |
20+30       1.1607      0.48  Q         |         |        |     V   |
20+35       1.1639      0.47  Q         |         |        |     V   |
20+40       1.1672      0.47  Q         |         |        |     V   |
20+45       1.1704      0.47  Q         |         |        |     V   |
20+50       1.1736      0.46  Q         |         |        |     V   |
20+55       1.1767      0.46  Q         |         |        |     V   |
21+ 0       1.1799      0.46  Q         |         |        |     V   |
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   21+ 5       1.1830      0.45  Q          |          |          |     V    |
   21+10       1.1861      0.45  Q          |          |          |     V    |
   21+15       1.1892      0.45  Q          |          |          |      V   |
   21+20       1.1922      0.44  Q          |          |          |      V   |
   21+25       1.1953      0.44  Q          |          |          |      V   |
   21+30       1.1983      0.44  Q          |          |          |      V   |
   21+35       1.2013      0.43  Q          |          |          |      V   |
   21+40       1.2042      0.43  Q          |          |          |      V   |
   21+45       1.2072      0.43  Q          |          |          |      V   |
   21+50       1.2101      0.43  Q          |          |          |      V   |
   21+55       1.2130      0.42  Q          |          |          |      V   |
   22+ 0       1.2159      0.42  Q          |          |          |      V   |
   22+ 5       1.2188      0.42  Q          |          |          |      V   |
   22+10       1.2217      0.42  Q          |          |          |       V  |
   22+15       1.2245      0.41  Q          |          |          |       V  |
   22+20       1.2274      0.41  Q          |          |          |       V  |
   22+25       1.2302      0.41  Q          |          |          |       V  |
   22+30       1.2330      0.41  Q          |          |          |       V  |
   22+35       1.2358      0.40  Q          |          |          |       V  |
   22+40       1.2385      0.40  Q          |          |          |       V  |
   22+45       1.2413      0.40  Q          |          |          |       V  |
   22+50       1.2440      0.40  Q          |          |          |       V  |
   22+55       1.2468      0.40  Q          |          |          |       V  |
   23+ 0       1.2495      0.39  Q          |          |          |       V  |
   23+ 5       1.2522      0.39  Q          |          |          |        V|
   23+10       1.2549      0.39  Q          |          |          |        V|
   23+15       1.2575      0.39  Q          |          |          |        V|
   23+20       1.2602      0.39  Q          |          |          |        V|
   23+25       1.2628      0.38  Q          |          |          |        V|
   23+30       1.2655      0.38  Q          |          |          |        V|
   23+35       1.2681      0.38  Q          |          |          |        V|
   23+40       1.2707      0.38  Q          |          |          |        V|
   23+45       1.2733      0.38  Q          |          |          |        V|
   23+50       1.2759      0.38  Q          |          |          |        V|
   23+55       1.2784      0.37  Q          |          |          |        V|
   24+ 0       1.2810      0.37  Q          |          |          |        V|
   24+ 5       1.2832      0.32  Q          |          |          |        V|
   24+10       1.2840      0.11  Q          |          |          |        V|
   24+15       1.2841      0.02  Q          |          |          |        V|
   24+20       1.2841      0.00  Q          |          |          |        V|
-------------------------------------------------------------------------
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                    FLOOD HYDROGRAPH ROUTING PROGRAM
            Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2005
                         Study date: 02/03/22

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3RD AT CENTRAL INDUSTRIAL
100 YEAR STORM EVENT - UG ROUTING STUDY
4509ROUTING
RP
----------------------------------------------------------------------


Program License Serial Number 6145

----------------------------------------------------------------------
********************* HYDROGRAPH INFORMATION **********************

             From study/file name: 4509P100UH.rte
****************************HYDROGRAPH DATA****************************
             Number of intervals =   292
             Time interval =    5.0 (Min.)
             Maximum/Peak flow rate =       11.555 (CFS)
             Total volume =       1.284 (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        5.000 to Point/Station        6.000
**** RETARDING BASIN ROUTING ****
______________________________________________________________________

User entry of depth-outflow-storage data
----------------------------------------------------------------------
Total number of inflow hydrograph intervals = 292
Hydrograph time unit =  5.000 (Min.)
Initial depth in storage basin =   0.00(Ft.)
----------------------------------------------------------------------
----------------------------------------------------------------------
Initial basin depth =   0.00 (Ft.)
Initial basin storage =      0.00 (Ac.Ft)
Initial basin outflow =   0.00 (CFS)
----------------------------------------------------------------------
----------------------------------------------------------------------
Depth vs. Storage and Depth vs. Discharge data:
 Basin Depth  Storage    Outflow   (S-O*dt/2)   (S+O*dt/2)
     (Ft.)    (Ac.Ft)    (CFS)     (Ac.Ft)     (Ac.Ft)
----------------------------------------------------------------------
   0.000      0.000      0.000      0.000        0.000
   0.500      0.011      0.560      0.009        0.013
   1.500      0.046      0.560      0.044        0.048
   2.500      0.089      0.560      0.087        0.091
   3.500      0.135      0.560      0.133        0.137
   4.500      0.181      0.560      0.179        0.183
   5.500      0.224      0.560      0.222        0.226
```

6.500	0.259	0.560	0.257	0.261
7.000	0.270	0.560	0.268	0.272
7.500	0.271	3.340	0.259	0.283
8.000	0.272	6.120	0.251	0.293

Hydrograph Detention Basin Routing

Graph values: 'I'= unit inflow; 'O'=outflow at time shown

Time (Hours)	Inflow (CFS)	Outflow (CFS)	Storage (Ac.Ft)	.0	2.9	5.78	8.67	11.56	Depth (Ft.)
0.083	0.05	0.01	0.000	O					0.01
0.167	0.26	0.05	0.001	O					0.04
0.250	0.35	0.13	0.002	O					0.11
0.333	0.37	0.20	0.004	OI					0.17
0.417	0.37	0.25	0.005	OI					0.22
0.500	0.37	0.28	0.006	OI					0.25
0.583	0.37	0.31	0.006	OI					0.28
0.667	0.37	0.33	0.006	OI					0.29
0.750	0.37	0.34	0.007	OI					0.31
0.833	0.37	0.35	0.007	OI					0.31
0.917	0.38	0.36	0.007	OI					0.32
1.000	0.38	0.36	0.007	|O					0.33
1.083	0.38	0.37	0.007	|O					0.33
1.167	0.38	0.37	0.007	|O					0.33
1.250	0.38	0.37	0.007	|O					0.33
1.333	0.38	0.38	0.007	|O					0.34
1.417	0.38	0.38	0.007	|O					0.34
1.500	0.38	0.38	0.007	|O					0.34
1.583	0.38	0.38	0.007	|O					0.34
1.667	0.38	0.38	0.007	|O					0.34
1.750	0.38	0.38	0.007	|O					0.34
1.833	0.39	0.38	0.008	|O					0.34
1.917	0.39	0.38	0.008	|O					0.34
2.000	0.39	0.38	0.008	|O					0.34
2.083	0.39	0.39	0.008	|O					0.34
2.167	0.39	0.39	0.008	|O					0.35
2.250	0.39	0.39	0.008	|O					0.35
2.333	0.39	0.39	0.008	|O					0.35
2.417	0.39	0.39	0.008	|O					0.35
2.500	0.39	0.39	0.008	|O					0.35
2.583	0.39	0.39	0.008	|O					0.35
2.667	0.40	0.39	0.008	|O					0.35
2.750	0.40	0.39	0.008	|O					0.35
2.833	0.40	0.39	0.008	|O					0.35
2.917	0.40	0.40	0.008	|O					0.35
3.000	0.40	0.40	0.008	|O					0.35
3.083	0.40	0.40	0.008	|O					0.36
3.167	0.40	0.40	0.008	|O					0.36
3.250	0.40	0.40	0.008	|O					0.36
3.333	0.40	0.40	0.008	|O					0.36
3.417	0.41	0.40	0.008	|O					0.36
3.500	0.41	0.40	0.008	|O					0.36
3.583	0.41	0.40	0.008	|O					0.36
3.667	0.41	0.41	0.008	|O					0.36
3.750	0.41	0.41	0.008	|O					0.36
3.833	0.41	0.41	0.008	|O					0.36
3.917	0.41	0.41	0.008	|O					0.37
4.000	0.41	0.41	0.008	|O					0.37
4.083	0.41	0.41	0.008	|O					0.37
4.167	0.42	0.41	0.008	|O					0.37
4.250	0.42	0.41	0.008	|O					0.37

4.333	0.42	0.41	0.008	O				0.37
4.417	0.42	0.42	0.008	O				0.37
4.500	0.42	0.42	0.008	O				0.37
4.583	0.42	0.42	0.008	O				0.37
4.667	0.42	0.42	0.008	O				0.37
4.750	0.42	0.42	0.008	O				0.38
4.833	0.43	0.42	0.008	O				0.38
4.917	0.43	0.42	0.008	O				0.38
5.000	0.43	0.42	0.008	O				0.38
5.083	0.43	0.43	0.008	O				0.38
5.167	0.43	0.43	0.008	O				0.38
5.250	0.43	0.43	0.008	O				0.38
5.333	0.43	0.43	0.008	O				0.38
5.417	0.44	0.43	0.008	O				0.39
5.500	0.44	0.43	0.009	O				0.39
5.583	0.44	0.43	0.009	O				0.39
5.667	0.44	0.44	0.009	O				0.39
5.750	0.44	0.44	0.009	O				0.39
5.833	0.44	0.44	0.009	O				0.39
5.917	0.44	0.44	0.009	O				0.39
6.000	0.45	0.44	0.009	O				0.39
6.083	0.45	0.44	0.009	O				0.40
6.167	0.45	0.44	0.009	O				0.40
6.250	0.45	0.45	0.009	O				0.40
6.333	0.45	0.45	0.009	O				0.40
6.417	0.45	0.45	0.009	O				0.40
6.500	0.46	0.45	0.009	O				0.40
6.583	0.46	0.45	0.009	O				0.40
6.667	0.46	0.45	0.009	O				0.41
6.750	0.46	0.46	0.009	O				0.41
6.833	0.46	0.46	0.009	O				0.41
6.917	0.46	0.46	0.009	O				0.41
7.000	0.47	0.46	0.009	O				0.41
7.083	0.47	0.46	0.009	O				0.41
7.167	0.47	0.46	0.009	O				0.41
7.250	0.47	0.47	0.009	O				0.42
7.333	0.47	0.47	0.009	O				0.42
7.417	0.48	0.47	0.009	O				0.42
7.500	0.48	0.47	0.009	O				0.42
7.583	0.48	0.47	0.009	O				0.42
7.667	0.48	0.48	0.009	O				0.42
7.750	0.48	0.48	0.009	O				0.43
7.833	0.49	0.48	0.009	O				0.43
7.917	0.49	0.48	0.009	O				0.43
8.000	0.49	0.48	0.009	O				0.43
8.083	0.49	0.49	0.010	O				0.43
8.167	0.49	0.49	0.010	O				0.44
8.250	0.50	0.49	0.010	O				0.44
8.333	0.50	0.49	0.010	O				0.44
8.417	0.50	0.49	0.010	O				0.44
8.500	0.50	0.50	0.010	O				0.44
8.583	0.50	0.50	0.010	O				0.44
8.667	0.51	0.50	0.010	O				0.45
8.750	0.51	0.50	0.010	O				0.45
8.833	0.51	0.51	0.010	O				0.45
8.917	0.51	0.51	0.010	O				0.45
9.000	0.52	0.51	0.010	O				0.46
9.083	0.52	0.51	0.010	O				0.46
9.167	0.52	0.51	0.010	O				0.46
9.250	0.52	0.52	0.010	O				0.46
9.333	0.53	0.52	0.010	O				0.46
9.417	0.53	0.52	0.010	O				0.47
9.500	0.53	0.53	0.010	O				0.47

9.583	0.54	0.53	0.010	O				0.47
9.667	0.54	0.53	0.010	O				0.47
9.750	0.54	0.53	0.010	O				0.48
9.833	0.54	0.54	0.011	O				0.48
9.917	0.55	0.54	0.011	O				0.48
10.000	0.55	0.54	0.011	O				0.48
10.083	0.55	0.55	0.011	O				0.49
10.167	0.56	0.55	0.011	O				0.49
10.250	0.56	0.55	0.011	O				0.49
10.333	0.56	0.55	0.011	O				0.50
10.417	0.57	0.56	0.011	O				0.50
10.500	0.57	0.56	0.011	O				0.50
10.583	0.57	0.56	0.011	O				0.50
10.667	0.58	0.56	0.011	O				0.51
10.750	0.58	0.56	0.011	O				0.51
10.833	0.59	0.56	0.012	O				0.52
10.917	0.59	0.56	0.012	O				0.52
11.000	0.59	0.56	0.012	O				0.53
11.083	0.60	0.56	0.012	O				0.53
11.167	0.60	0.56	0.012	O				0.54
11.250	0.61	0.56	0.013	O				0.55
11.333	0.61	0.56	0.013	O				0.56
11.417	0.61	0.56	0.013	O				0.57
11.500	0.62	0.56	0.014	O				0.58
11.583	0.62	0.56	0.014	O				0.59
11.667	0.63	0.56	0.015	O				0.61
11.750	0.63	0.56	0.015	O				0.62
11.833	0.64	0.56	0.016	O				0.64
11.917	0.64	0.56	0.016	O				0.65
12.000	0.65	0.56	0.017	O				0.67
12.083	0.63	0.56	0.017	O				0.68
12.167	0.51	0.56	0.018	O				0.69
12.250	0.46	0.56	0.017	O				0.67
12.333	0.46	0.56	0.016	O				0.65
12.417	0.46	0.56	0.016	O				0.63
12.500	0.47	0.56	0.015	O				0.61
12.583	0.47	0.56	0.014	O				0.59
12.667	0.48	0.56	0.014	O				0.58
12.750	0.49	0.56	0.013	O				0.56
12.833	0.50	0.56	0.013	O				0.55
12.917	0.50	0.56	0.012	O				0.54
13.000	0.51	0.56	0.012	O				0.53
13.083	0.52	0.56	0.012	O				0.52
13.167	0.53	0.56	0.011	O				0.51
13.250	0.54	0.56	0.011	O				0.51
13.333	0.55	0.56	0.011	O				0.50
13.417	0.56	0.56	0.011	O				0.50
13.500	0.57	0.56	0.011	O				0.50
13.583	0.58	0.56	0.011	O				0.50
13.667	0.59	0.56	0.011	O				0.51
13.750	0.60	0.56	0.012	O				0.52
13.833	0.62	0.56	0.012	O				0.53
13.917	0.63	0.56	0.012	O				0.54
14.000	0.65	0.56	0.013	O				0.55
14.083	0.66	0.56	0.014	O				0.57
14.167	0.68	0.56	0.014	O				0.59
14.250	0.69	0.56	0.015	O				0.62
14.333	0.72	0.56	0.016	O				0.65
14.417	0.73	0.56	0.017	OI				0.68
14.500	0.76	0.56	0.019	OI				0.72
14.583	0.78	0.56	0.020	OI				0.76
14.667	0.81	0.56	0.022	OI				0.80
14.750	0.84	0.56	0.023	OI				0.86

14.833	0.87	0.56	0.025	OI				0.91
14.917	0.90	0.56	0.028	OI				0.98
15.000	0.94	0.56	0.030	OI				1.05
15.083	0.98	0.56	0.033	OI				1.13
15.167	1.04	0.56	0.036	OI				1.22
15.250	1.09	0.56	0.040	O I				1.32
15.333	1.16	0.56	0.043	O I				1.43
15.417	1.24	0.56	0.048	O I				1.54
15.500	1.36	0.56	0.053	O I				1.66
15.583	1.48	0.56	0.059	O I				1.80
15.667	1.64	0.56	0.066	O I				1.96
15.750	1.83	0.56	0.074	O I				2.15
15.833	2.16	0.56	0.084	O I				2.38
15.917	2.61	0.56	0.096	O I				2.66
16.000	3.59	0.56	0.114	O	I			3.04
16.083	6.30	0.56	0.144	O		I		3.70
16.167	11.56	0.56	0.202	O			I	4.98
16.250	6.68	0.56	0.261	O		I		6.58
16.333	2.79	5.67	0.272	I	O			7.92
16.417	1.83	0.56	0.266	O I				6.83
16.500	1.39	1.49	0.270	IO				7.17
16.583	1.19	1.12	0.270	O				7.10
16.667	1.05	1.12	0.270	IO				7.10
16.750	0.95	0.91	0.270	O				7.06
16.833	0.88	0.92	0.270	O				7.06
16.917	0.82	0.79	0.270	O				7.04
17.000	0.76	0.79	0.270	O				7.04
17.083	0.72	0.70	0.270	O				7.03
17.167	0.68	0.70	0.270	O				7.03
17.250	0.65	0.64	0.270	O				7.01
17.333	0.62	0.63	0.270	O				7.01
17.417	0.59	0.59	0.270	O				7.00
17.500	0.57	0.58	0.270	O				7.00
17.583	0.55	0.56	0.270	O				7.00
17.667	0.53	0.56	0.270	O				6.99
17.750	0.51	0.56	0.270	O				6.98
17.833	0.50	0.56	0.269	O				6.96
17.917	0.48	0.56	0.269	O				6.94
18.000	0.47	0.56	0.268	O				6.91
18.083	0.48	0.56	0.268	O				6.89
18.167	0.60	0.56	0.267	O				6.88
18.250	0.64	0.56	0.268	O				6.90
18.333	0.64	0.56	0.268	O				6.92
18.417	0.63	0.56	0.269	O				6.95
18.500	0.62	0.56	0.269	O				6.97
18.583	0.61	0.56	0.270	O				6.99
18.667	0.60	0.56	0.270	O				7.00
18.750	0.59	0.63	0.270	O				7.01
18.833	0.59	0.56	0.270	O				7.00
18.917	0.58	0.60	0.270	O				7.01
19.000	0.57	0.56	0.270	O				7.00
19.083	0.56	0.57	0.270	O				7.00
19.167	0.56	0.56	0.270	O				7.00
19.250	0.55	0.56	0.270	O				7.00
19.333	0.55	0.56	0.270	O				6.99
19.417	0.54	0.56	0.270	O				6.99
19.500	0.53	0.56	0.270	O				6.98
19.583	0.53	0.56	0.269	O				6.97
19.667	0.52	0.56	0.269	O				6.96
19.750	0.52	0.56	0.269	O				6.95
19.833	0.51	0.56	0.269	O				6.93
19.917	0.51	0.56	0.268	O				6.92
20.000	0.50	0.56	0.268	O				6.90

20.083	0.50	0.56	0.267	O				6.88
20.167	0.49	0.56	0.267	O				6.86
20.250	0.49	0.56	0.267	O				6.84
20.333	0.49	0.56	0.266	O				6.82
20.417	0.48	0.56	0.265	O				6.79
20.500	0.48	0.56	0.265	O				6.77
20.583	0.47	0.56	0.264	O				6.74
20.667	0.47	0.56	0.264	O				6.72
20.750	0.47	0.56	0.263	O				6.69
20.833	0.46	0.56	0.262	O				6.66
20.917	0.46	0.56	0.262	O				6.63
21.000	0.46	0.56	0.261	O				6.59
21.083	0.45	0.56	0.260	O				6.56
21.167	0.45	0.56	0.260	O				6.53
21.250	0.45	0.56	0.259	O				6.49
21.333	0.44	0.56	0.258	O				6.47
21.417	0.44	0.56	0.257	O				6.45
21.500	0.44	0.56	0.256	O				6.42
21.583	0.43	0.56	0.256	O				6.40
21.667	0.43	0.56	0.255	O				6.38
21.750	0.43	0.56	0.254	O				6.35
21.833	0.43	0.56	0.253	O				6.32
21.917	0.42	0.56	0.252	O				6.30
22.000	0.42	0.56	0.251	O				6.27
22.083	0.42	0.56	0.250	O				6.24
22.167	0.42	0.56	0.249	O				6.21
22.250	0.41	0.56	0.248	O				6.19
22.333	0.41	0.56	0.247	O				6.16
22.417	0.41	0.56	0.246	O				6.13
22.500	0.41	0.56	0.245	O				6.10
22.583	0.40	0.56	0.244	O				6.07
22.667	0.40	0.56	0.243	O				6.04
22.750	0.40	0.56	0.242	O				6.01
22.833	0.40	0.56	0.241	O				5.97
22.917	0.40	0.56	0.239	O				5.94
23.000	0.39	0.56	0.238	O				5.91
23.083	0.39	0.56	0.237	O				5.88
23.167	0.39	0.56	0.236	O				5.84
23.250	0.39	0.56	0.235	O				5.81
23.333	0.39	0.56	0.234	O				5.77
23.417	0.38	0.56	0.232	O				5.74
23.500	0.38	0.56	0.231	O				5.71
23.583	0.38	0.56	0.230	O				5.67
23.667	0.38	0.56	0.229	O				5.63
23.750	0.38	0.56	0.227	O				5.60
23.833	0.38	0.56	0.226	O				5.56
23.917	0.37	0.56	0.225	O				5.53
24.000	0.37	0.56	0.224	O				5.49
24.083	0.32	0.56	0.222	IO				5.46
24.167	0.11	0.56	0.220	IO				5.40
24.250	0.02	0.56	0.216	IO				5.32
24.333	0.00	0.56	0.213	IO				5.23
24.417	0.00	0.56	0.209	IO				5.15
24.500	0.00	0.56	0.205	IO				5.06
24.583	0.00	0.56	0.201	IO				4.97
24.667	0.00	0.56	0.197	IO				4.88
24.750	0.00	0.56	0.193	IO				4.79
24.833	0.00	0.56	0.189	IO				4.70
24.917	0.00	0.56	0.186	IO				4.61
25.000	0.00	0.56	0.182	IO				4.52
25.083	0.00	0.56	0.178	IO				4.43
25.167	0.00	0.56	0.174	IO				4.35
25.250	0.00	0.56	0.170	IO				4.26

25.333	0.00	0.56	0.166	IO	|	|	|	|	4.18
25.417	0.00	0.56	0.162	IO	|	|	|	|	4.10
25.500	0.00	0.56	0.159	IO	|	|	|	|	4.01
25.583	0.00	0.56	0.155	IO	|	|	|	|	3.93
25.667	0.00	0.56	0.151	IO	|	|	|	|	3.85
25.750	0.00	0.56	0.147	IO	|	|	|	|	3.76
25.833	0.00	0.56	0.143	IO	|	|	|	|	3.68
25.917	0.00	0.56	0.139	IO	|	|	|	|	3.59
26.000	0.00	0.56	0.135	IO	|	|	|	|	3.51
26.083	0.00	0.56	0.132	IO	|	|	|	|	3.43
26.167	0.00	0.56	0.128	IO	|	|	|	|	3.34
26.250	0.00	0.56	0.124	IO	|	|	|	|	3.26
26.333	0.00	0.56	0.120	IO	|	|	|	|	3.18
26.417	0.00	0.56	0.116	IO	|	|	|	|	3.09
26.500	0.00	0.56	0.112	IO	|	|	|	|	3.01
26.583	0.00	0.56	0.108	IO	|	|	|	|	2.92
26.667	0.00	0.56	0.105	IO	|	|	|	|	2.84
26.750	0.00	0.56	0.101	IO	|	|	|	|	2.76
26.833	0.00	0.56	0.097	IO	|	|	|	|	2.67
26.917	0.00	0.56	0.093	IO	|	|	|	|	2.59
27.000	0.00	0.56	0.089	IO	|	|	|	|	2.50
27.083	0.00	0.56	0.085	IO	|	|	|	|	2.41
27.167	0.00	0.56	0.081	IO	|	|	|	|	2.33
27.250	0.00	0.56	0.078	IO	|	|	|	|	2.24
27.333	0.00	0.56	0.074	IO	|	|	|	|	2.15
27.417	0.00	0.56	0.070	IO	|	|	|	|	2.06
27.500	0.00	0.56	0.066	IO	|	|	|	|	1.97
27.583	0.00	0.56	0.062	IO	|	|	|	|	1.88
27.667	0.00	0.56	0.058	IO	|	|	|	|	1.79
27.750	0.00	0.56	0.054	IO	|	|	|	|	1.70
27.833	0.00	0.56	0.051	IO	|	|	|	|	1.61
27.917	0.00	0.56	0.047	IO	|	|	|	|	1.52
28.000	0.00	0.56	0.043	IO	|	|	|	|	1.41
28.083	0.00	0.56	0.039	IO	|	|	|	|	1.30
28.167	0.00	0.56	0.035	IO	|	|	|	|	1.19
28.250	0.00	0.56	0.031	IO	|	|	|	|	1.08
28.333	0.00	0.56	0.027	IO	|	|	|	|	0.97
28.417	0.00	0.56	0.024	IO	|	|	|	|	0.86
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28.833	0.00	0.31	0.006	O	|	|	|	|	0.28
28.917	0.00	0.22	0.004	O	|	|	|	|	0.19
29.000	0.00	0.15	0.003	O	|	|	|	|	0.14
29.083	0.00	0.11	0.002	O	|	|	|	|	0.10
29.167	0.00	0.07	0.001	O	|	|	|	|	0.07
29.250	0.00	0.05	0.001	O	|	|	|	|	0.05
29.333	0.00	0.04	0.001	O	|	|	|	|	0.03
29.417	0.00	0.03	0.001	O	|	|	|	|	0.02
29.500	0.00	0.02	0.000	O	|	|	|	|	0.02
29.583	0.00	0.01	0.000	O	|	|	|	|	0.01
29.667	0.00	0.01	0.000	O	|	|	|	|	0.01
29.750	0.00	0.01	0.000	O	|	|	|	|	0.01
29.833	0.00	0.00	0.000	O	|	|	|	|	0.00
29.917	0.00	0.00	0.000	O	|	|	|	|	0.00
30.000	0.00	0.00	0.000	O	|	|	|	|	0.00
30.083	0.00	0.00	0.000	O	|	|	|	|	0.00
30.167	0.00	0.00	0.000	O	|	|	|	|	0.00

**********HYDROGRAPH DATA**********

Number of intervals = 362

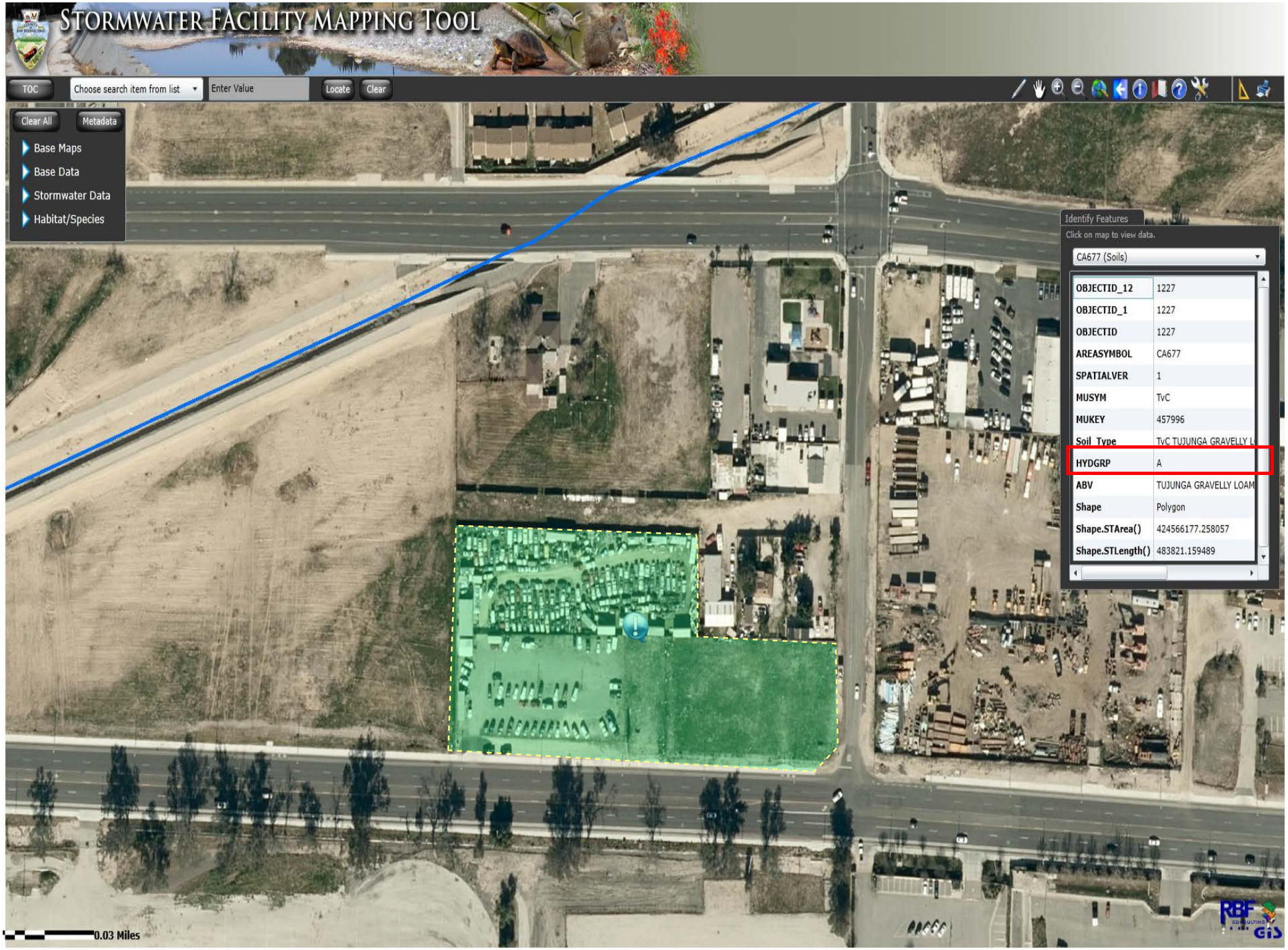
Time interval = 5.0 (Min.)

UNDERGROUND SYSTEM EMPTY WITHIN 30 HOURS IN 100 YEAR, 24 HOUR STORM EVENT

```
        Maximum/Peak flow rate =        5.669 (CFS)
        Total volume =       1.284 (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
**********************************************************************

----------------------------------------------------------------------
```

Appendix D
Soil Group Map and Isohyetal Map


STORMWATER FACILITY MAPPING TOOL
TOC
Choose search item from list
Enter Value
Locate
Clear
Clear All
Metadata
Base Maps
Base Data
Stormwater Data
Habitat/Species
Identify Features
Click on map to view data.
CA677 (Soils)
OBJECTID_12 1227
OBJECTID_1 1227
OBJECTID 1227
AREASYMBOL CA677
SPATIALVER 1
MUSYM TvC
MUKEY 457996
Soil_Type TvC TUJUNGA GRAVELLY L
HYDGRP A
ABV TUJUNGA GRAVELLY LOAM
Shape Polygon
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Shape.STLength() 483821.159489
0.03 Miles
RBF CONSULTING GIS

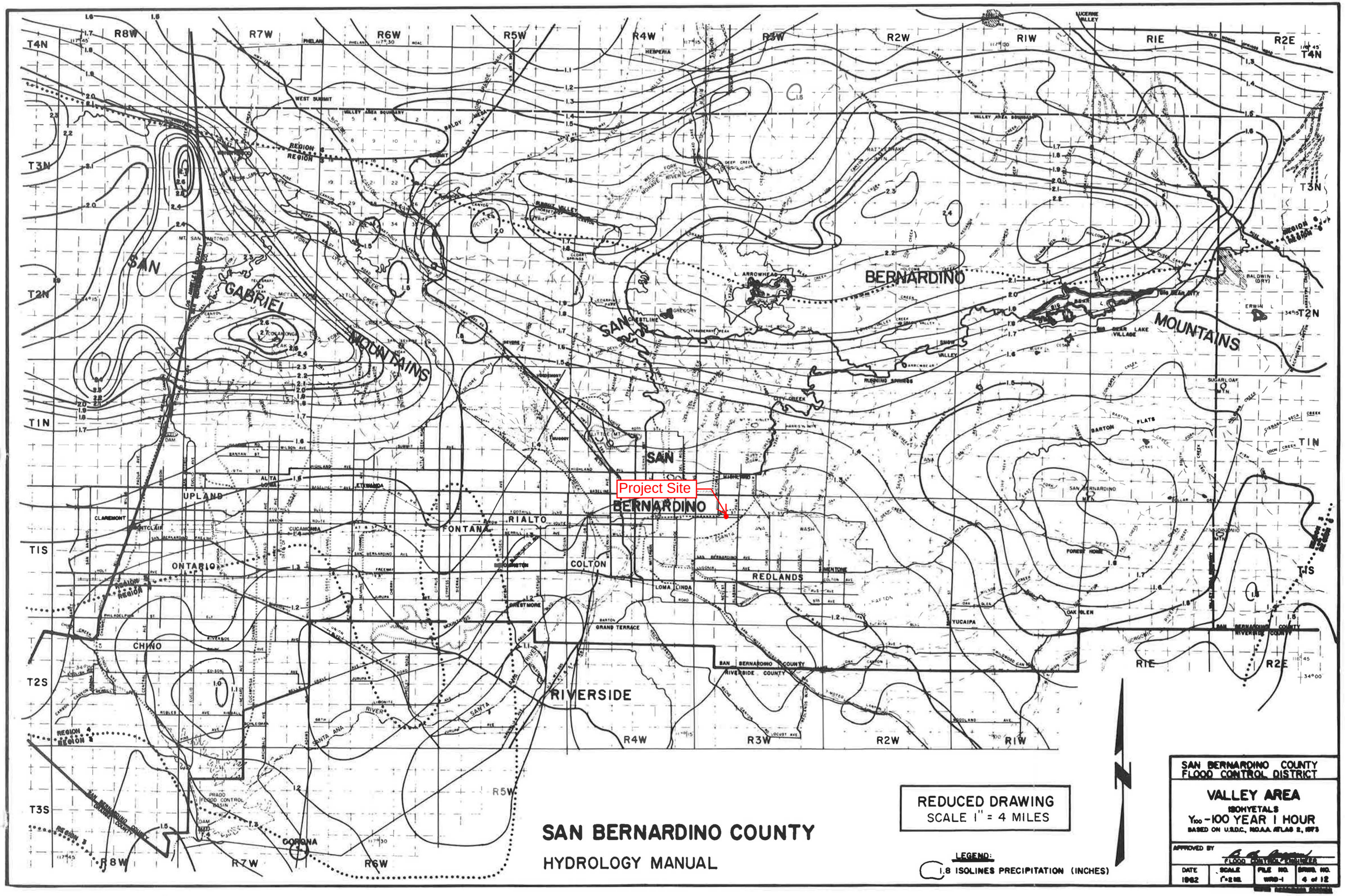

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
1.8 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
Y100 -100 YEAR 1 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1962
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 4 of 12
Project Site
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
CORONA
BIG BEAR LAKE VILLAGE
BARTON FLATS
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E

FIGURE B-4

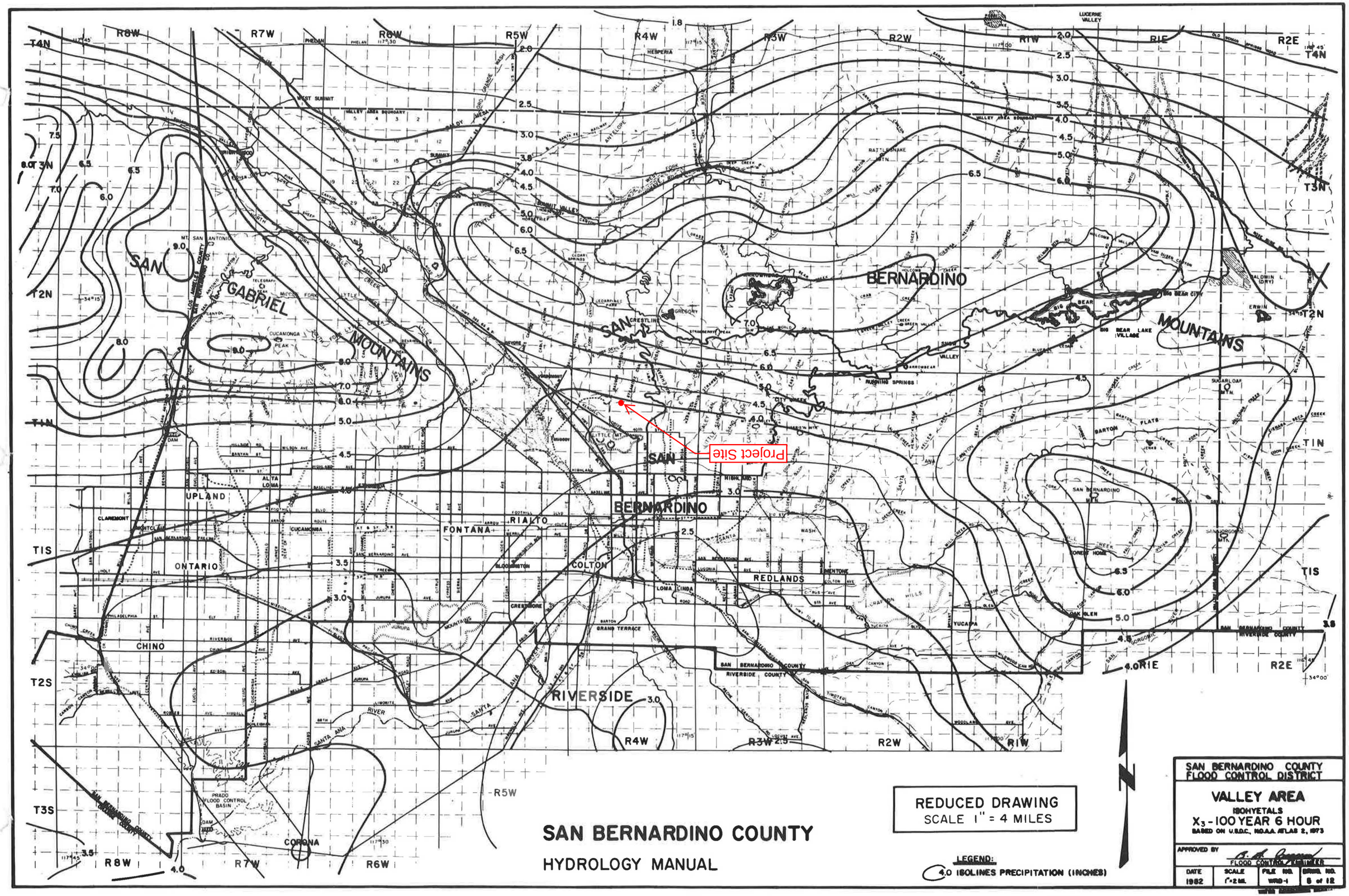
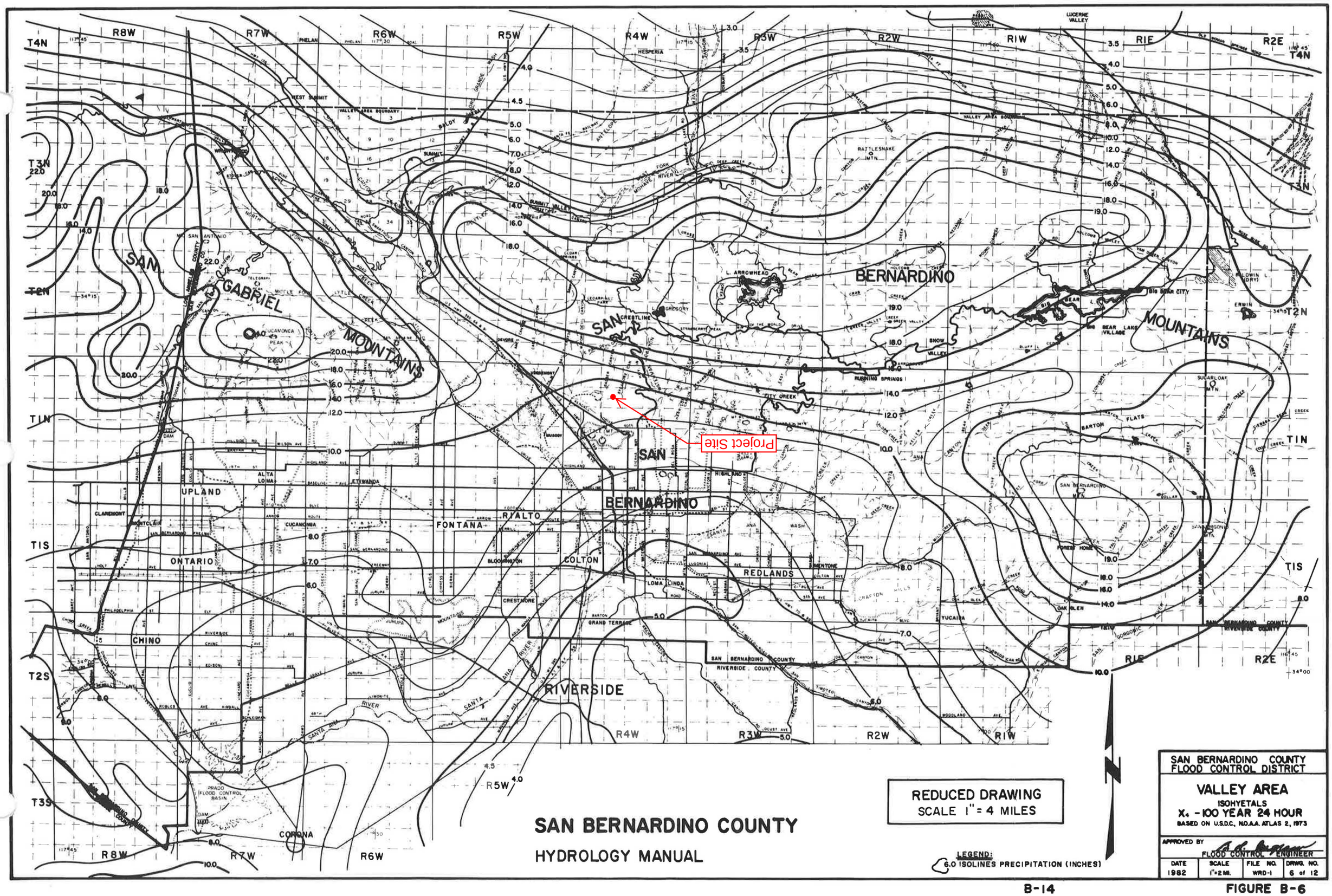

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
4.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X3 - 100 YEAR 6 HOUR
BASED ON U.S.D.C., NOAA ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 8 of 12
Project Site
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
BERNARDINO
UPLAND
ONTARIO
CHINO
RIALTO
FONTANA
COLTON
REDLANDS
RIVERSIDE
CORONA
BIG BEAR LAKE
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
PRADO FLOOD CONTROL BASIN
T4N
T3N
T2N
T1N
T1S
T2S
T3S
R8W
R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E

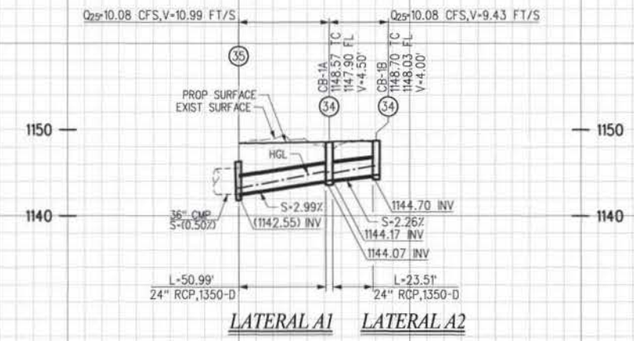
FIGURE B-5



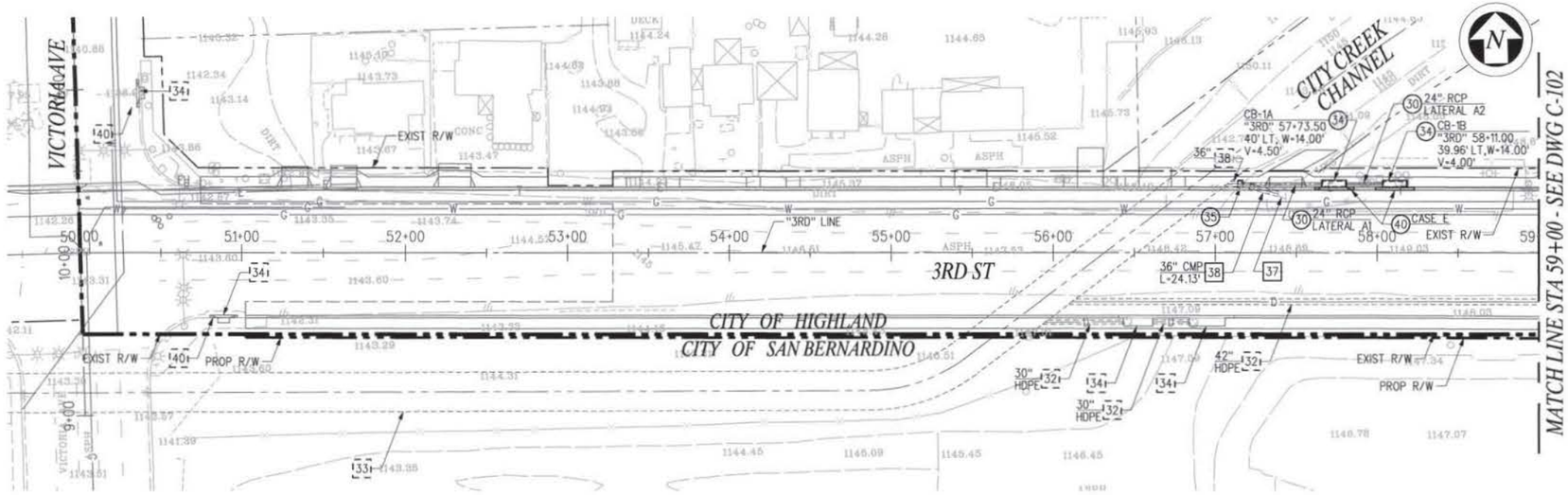
SAN BERNARDINO COUNTY
HYDROLOGY MANUAL
REDUCED DRAWING
SCALE 1" = 4 MILES
LEGEND:
6.0 ISOLINES PRECIPITATION (INCHES)
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
VALLEY AREA
ISOHYETALS
X4 - 100 YEAR 24 HOUR
BASED ON U.S.D.C., N.O.A.A. ATLAS 2, 1973
APPROVED BY
FLOOD CONTROL ENGINEER
DATE 1982
SCALE 1"=2 MI.
FILE NO. WRD-1
DRWG. NO. 6 of 12
Project Site
SAN GABRIEL MOUNTAINS
SAN BERNARDINO MOUNTAINS
SAN BERNARDINO
RIVERSIDE
UPLAND
ONTARIO
CHINO
FONTANA
RIALTO
COLTON
REDLANDS
CORONA
BIG BEAR CITY
BIG BEAR LAKE VILLAGE
L. ARROWHEAD
RUNNING SPRINGS
CRESTLINE
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY

FIGURE B-6

Appendix E
Selected References



ALL UTILITY DEPTHS TO BE FIELD VERIFIED OR POTHOLED PRIOR TO CONSTRUCTION



CONSTRUCTION SYMBOLS:

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE AND RECONSTRUCT
- PROTECT IN PLACE
- ABANDON

DRAINAGE CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STANDARD PLAN
30	REINFORCED CONCRETE PIPE (RCP)	-
32	HIGH DENSITY POLYETHYLENE PIPE (HDPE)	-
33	REINFORCE CONCRETE BOX (RCB)	-
34	CATCH BASIN	300-3 (SPPWC)
35	CONCRETE COLLAR	380-4 (SPPWC)
37	METAL FLARED END SECTION	-
38	CORRUGATED METAL PIPE (CMP)	-
40	LOCAL DEPRESSIONS AT CATCH BASINS, CASE PER PLAN	113-3 (SPPWC)

CITY OF HIGHLAND

APPROVED 10 - 20 - 2016

ERNEST WONG, P.E.
R.C.E. NO. 37413 EXP. 06/30/18

8' 0 8' 16'
VERTICAL GRAPHIC SCALE

40' 20' 0 40' 80'
HORIZONTAL GRAPHIC SCALE

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE 811
(TWO WORKING DAYS BEFORE YOU DIG)

MARK	REVISIONS	BY	APPR.	DATE

DESIGNED BY: J. VILLA
DRAWN BY: G. GOMEZ
CHECKED BY: R. RAMIREZ
IN CHARGE: R. RAMIREZ
DATE: 10/7/2016

REGISTERED PROFESSIONAL ENGINEER ROBERTO RAMIREZ No. C66871 Exp. 09/30/18 CIVIL STATE OF CALIFORNIA

CORDOBA CORPORATION
1611 E. 17TH ST. SANTA ANA, CA 92705
714.558.6124 PH - 714.558.8467 FAX

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY 1992

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

3RD ST ROADWAY INFRASTRUCTURE IMPROVEMENTS PROJECT
DRAINAGE PLAN AND PROFILE
STA 50+00 TO STA 59+00

FOR CITY USE ONLY: FILE NO. C.I. NO. W.O. NO.

DRAWING NO. D-101
SHEET 18 OF 32 SHEETS

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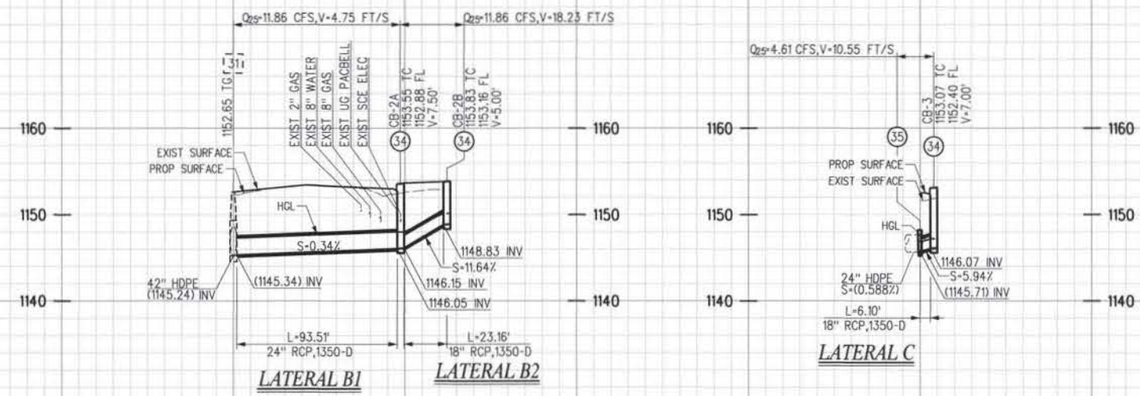
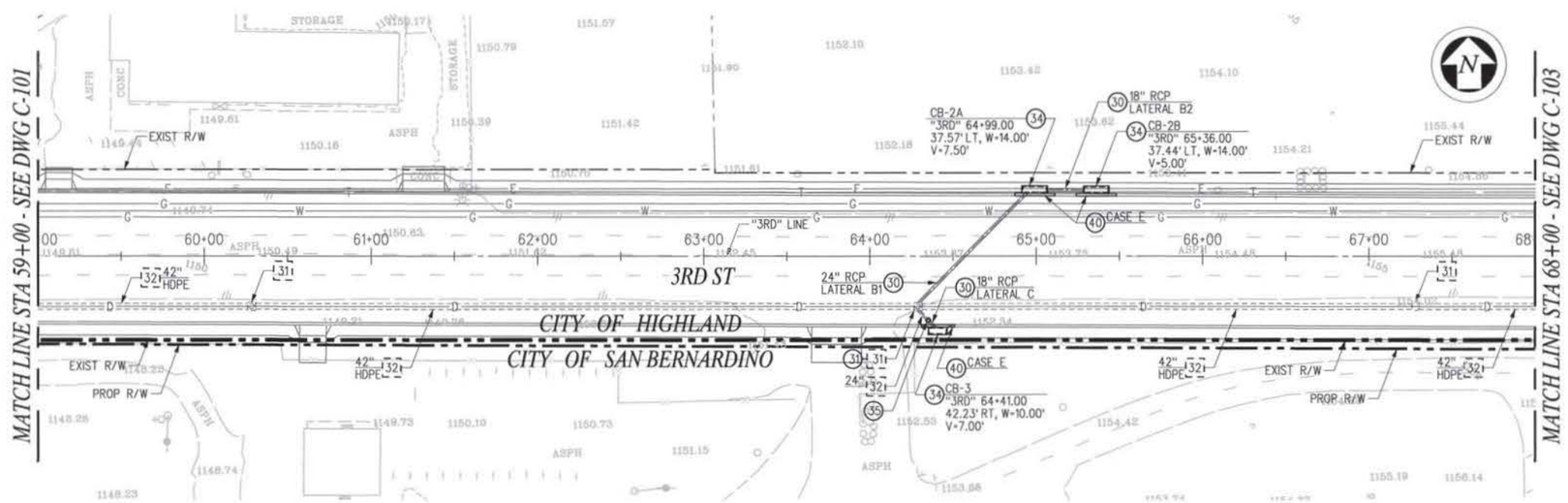


ALL UTILITY DEPTHS TO BE FIELD VERIFIED OR POTHOLED PRIOR TO CONSTRUCTION



CONSTRUCTION SYMBOLS:

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE AND RECONSTRUCT
- PROTECT IN PLACE
- ABANDON

DRAINAGE CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STANDARD PLAN
30	REINFORCED CONCRETE PIPE (RCP)	-
31	STORM DRAIN MANHOLE	-
32	HIGH DENSITY POLYETHYLENE PIPE (HDPE)	-
34	CATCH BASIN	300-3 (SPPWC)
35	CONCRETE COLLAR	380-4 (SPPWC)
40	LOCAL DEPRESSIONS AT CATCH BASINS, CASE PER PLAN	313-3 (SPPWC)

CITY OF HIGHLAND

APPROVED 10 - 20 - 2016

ERNEST WONG, P.E.
R.C.E. NO. 37413 EXP. 06/30/18

8' 0 8' 16'
VERTICAL GRAPHIC SCALE

40' 20' 0 40' 80'
HORIZONTAL GRAPHIC SCALE

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE 811
(TWO WORKING DAYS BEFORE YOU DIG)

MARK	REVISIONS	BY	APPR.	DATE

DESIGNED BY: J. VILLA
DRAWN BY: G. GOMEZ
CHECKED BY: R. RAMIREZ
IN CHARGE: R. RAMIREZ
DATE: 10/7/2016

REGISTERED PROFESSIONAL ENGINEER ROBERTO RAMIREZ No. C66871 Exp. 09/30/18 CIVIL STATE OF CALIFORNIA

CORDOBA CORPORATION
1611 E. 17TH ST. SANTA ANA, CA 92705
714.558.6124 PH - 714.558.8467 FAX

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY 1992

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

3RD ST ROADWAY INFRASTRUCTURE IMPROVEMENTS PROJECT
DRAINAGE PLAN AND PROFILE
STA 59+00 TO STA 68+00

DRAWING NO. D-102

SHEET 19 OF 32 SHEETS

FOR CITY USE ONLY: FILE NO. C.I. NO. W.O. NO.

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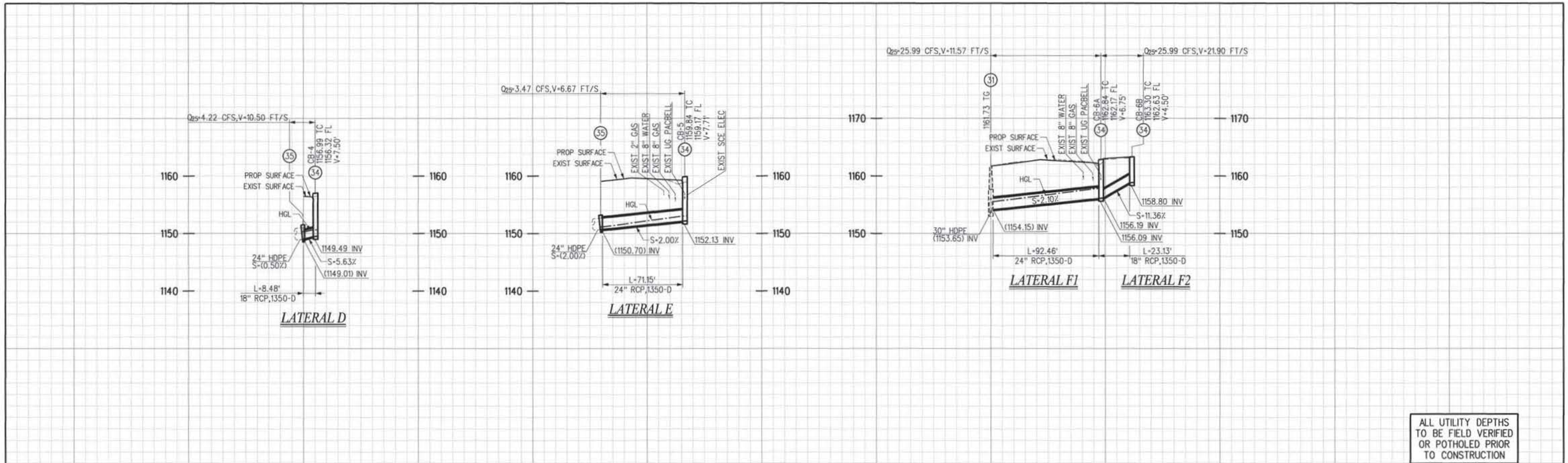
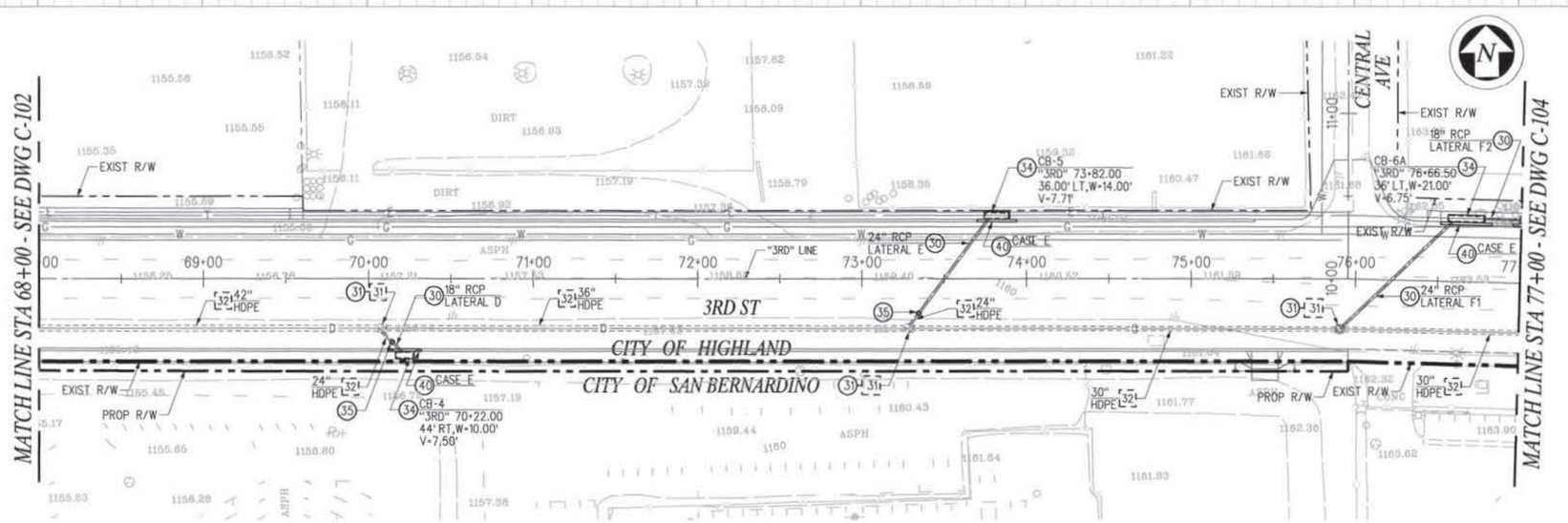


ALL UTILITY DEPTHS TO BE FIELD VERIFIED OR POTHOLED PRIOR TO CONSTRUCTION



CONSTRUCTION SYMBOLS:

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE AND RECONSTRUCT
- PROTECT IN PLACE
- ABANDON

DRAINAGE CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STANDARD PLAN
30	REINFORCED CONCRETE PIPE (RCP)	-
31	STORM DRAIN MANHOLE	-
32	HIGH DENSITY POLYETHYLENE PIPE (HDPE)	-
34	CATCH BASIN	300-3 (SPPWC)
35	CONCRETE COLLAR	380-4 (SPPWC)
40	LOCAL DEPRESSIONS AT CATCH BASINS, CASE PER PLAN	313-3 (SPPWC)

CITY OF HIGHLAND

APPROVED 10 - 20 - 2016

ERNEST WONG, P.E.
R.C.E. NO. 37413 EXP. 06/30/18

VERTICAL GRAPHIC SCALE 8' 0 8' 16'

HORIZONTAL GRAPHIC SCALE 40' 20' 0 40' 80'

Underground Service Alert
CALL BEFORE YOU DIG
Call: TOLL FREE 811
(TWO WORKING DAYS BEFORE YOU DIG)

MARK	REVISIONS	BY	APPR.	DATE

DESIGNED BY: J. VILLA
DRAWN BY: G. GOMEZ
CHECKED BY: R. RAMIREZ
IN CHARGE: R. RAMIREZ
DATE: 10/7/2016

REGISTERED PROFESSIONAL ENGINEER ROBERTO RAMIREZ No. C66871 Exp. 09/30/18 CIVIL STATE OF CALIFORNIA

CORDOBA CORPORATION
1611 E. 17TH ST. SANTA ANA, CA 92705
714.558.6124 PH - 714.558.8467 FAX

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY 1992

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

3RD ST ROADWAY INFRASTRUCTURE IMPROVEMENTS PROJECT
DRAINAGE PLAN AND PROFILE
STA 68+00 TO STA 77+00

FOR CITY USE ONLY: FILE NO. C.I. NO. W.O. NO.

DRAWING NO. D-103

SHEET 20 OF 32 SHEETS

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Appendix G
Noise Attachments

APPENDIX G-1

Field Noise Data Sheets

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: PAVRIOT 3RD & CENTRAL
PROJECT #: 13893
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAR
START DATE: 1/11/22 END DATE: 1/12/22
START TIME: END TIME:

METEOROLOGICAL CONDITIONS
TEMP ____ F HUMIDITY ____ % R.H. WIND CALM LIGHT MODERATE
WINDSPD ____ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO II TYPE 1 2 SERIAL # P0218091404
CALIBRATOR: REED R8090 SERIAL #:
CALIBRATION CHECK PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER:

REC. #	1/11 BEGIN	1/12 END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
LT-1 1-1452	11:18	11:29							

COMMENTS
READING TAKEN ~~AM~~ ALONG E. 3RD ST, WEST OF CENTRAL AVE;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: APX 40' TO C/L ON E. 3RD ST
TRAFFIC COUNT DURATION: — MIN SPEED ___ MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2) NB/EB	SB/WB	NB/EB	SB/WB
AUTOS									
MED TRKS									
HVY TRKS									
BUSES									
MOTRCLS									

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH
TERRAIN HARD SOFT MIXED FLAT OTHER:
PHOTOS 3273; 3274; 3275; 3276; 3277
OTHER COMMENTS / SKETCH

N

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: PATRIOT 3RD & CENTRAL
PROJECT #: 13893
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAR
START DATE: 1/11/22 END DATE: 1/11/22
START TIME: END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 62 F HUMIDITY: 15 % R.H. WIND: (CALM) LIGHT MODERATE
WINDSPD: 1 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
SKY: SUNNY (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO SCM P-3 TYPE 1 2 SERIAL # 130927046
CALIBRATOR: REGD. K8090 SERIAL #:
CALIBRATION CHECK: PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST1) 1-16	11:41	11:56							

COMMENTS
READILY TAKEN NEAR NW CORNER OF 5TH ST & CENTRAL AVE (HEAD START SCHOOL); PRIMARY NOISE SOURCE IS TRAFFIC ON 5TH ST; SECONDARY IS LIGHT TRAFFIC ON CENTRAL AVE; SOME AUDIBLE TRAFFIC NOISE FROM 3RD ST TO THE SOUTH;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: APX 75' TO C/L ON 5TH ST
TRAFFIC COUNT DURATION: 15 MIN SPEED ____ MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓	COUNT 2 (OR RDWY 2) NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	121								
MED TRKS	3								
HVY TRKS	6								
BUSES	1								
MOTRCLS	0								

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DIST'D GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 3283; 3284; 3285; 3286; 3287
OTHER COMMENTS / SKETCH

N

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: PATRIOT 3RD & CENTRAL — PROJECT #: 13893
SITE ID:
SITE ADDRESS: — OBSERVER(S): PETE VITAR
START DATE: 1/11/22 — END DATE: 1/11/22
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 68 F — HUMIDITY: 15 % R.H. — WIND: (CALM) LIGHT MODERATE VARIABLE STEADY GUSTY
WINDSPD: 1 MPH — DIR. N NE S SE S SW W NW
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM P-3 — TYPE 1 2 — SERIAL# 130927046
CALIBRATOR: REGO. R8090 — SERIAL#
CALIBRATION CHECK: PRE-TEST ____ dBA SPL — POST-TEST ____ dBA SPL — WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST2) 17-32	12:04	12:19							

COMMENTS: READING TAKEN ALONG 5TH ST, BEHIND ~~[illegible]~~ MULTI-FAMILY RESIDENTIAL BUILDINGS AT 26837 MOSSWAP ST; PRIMARY NOISE SOURCE IS TRAFFIC ON 5TH ST; SECONDARY IS LIGHT TRAFFIC ON CENTRAL AVE TO THE EAST;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO RDWY (C/L) OR EOP: APX 55' TO C/L ON 5TH ST.

TRAFFIC COUNT DURATION: 15 MIN — SPEED — ___ MIN — SPEED

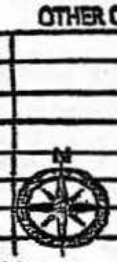
COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓	COUNT 2 (OR RDWY 2) NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	133								
MED TRKS	3								
HVY TRKS	8								
BUSES	0								
MOTRCLS	0								

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH

TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 3289; 3290; 3291; 3292; 3293; 3294; 3295;
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: PATRIOT 3RD & CENTRAL
PROJECT #: 13893
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAR
START DATE: 1/11/22 END DATE: 1/11/22
START TIME: END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 70 F HUMIDITY: 15 % R.H. WIND: (CALM) LIGHT MODERATE
WINDSPD: 2 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM P-3 TYPE 1 2 SERIAL # 130927046
CALIBRATOR: REGD. R8090 SERIAL #:
CALIBRATION CHECK PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN: YES

SETTINGS: (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

	REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST3)	33-48	12:32	12:47							

COMMENTS: READING TAKEN IN FRONT OF 27014 5TH ST (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON 5TH ST;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY (C/L) OR EOP: APX 45' TO C/L ON 5TH ST.
TRAFFIC COUNT DURATION: 15 MIN ____ MIN

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB
			SPEED					SPEED	
AUTOS	141								
MED TRKS	7								
HVY TRKS	16								
BUSES	1								
MOTRCLS	0								

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER:

DESCRIPTION / SKETCH

TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 3297; 3298; 3299; 3300
OTHER COMMENTS / SKETCH

N

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: PATRIOT 3RD & CENTRAL
PROJECT #: 13893
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAR
START DATE: 1/11/22 END DATE: 1/11/22
START TIME: END TIME:

METEOROLOGICAL CONDITIONS

TEMP 70 F HUMIDITY 15 % R.H. WIND (CALM) LIGHT MODERATE
WINDSPD 1 MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY
SKY (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS

MEAS. INSTRUMENT: PICCOLO SLM P-3 TYPE 1 2 SERIAL # 130927046
CALIBRATOR: REGD. R8090 SERIAL #:
CALIBRATION CHECK PRE-TEST ____ dBA SPL POST-TEST ____ dBA SPL WINDSCRN YES

SETTINGS (A-WTD) (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST 4) 49-64	13:01	13:16							

COMMENTS
READING TAKEN IN FRONT OF ~~[illegible]~~ 26562 3RD ST (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON 3RD ST; SOME ~~[illegible]~~ OCCASIONAL NOISE OF CONVERSATION - VEHICLE MOVEMENT IN LOT ACROSS THE STREET; ALSO OCCASIONAL BACK UP ALARM;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY (C/L) OR EOP: APX 50' TO C/L ON 3RD ST

TRAFFIC COUNT DURATION: 15 MIN SPEED ____ MIN SPEED

COUNT 1 (OR RDWY #1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ✓	COUNT 2 (OR RDWY 2) NB/EB	SB/WB	NB/EB	SB/WB
AUTOS	135								
MED TRKS	1								
HVY TRKS	9								
BUSES	0								
MOTRCLS	0								

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
DIST. KIDS PLAYING (DIST. CONVRSTNS / YELLING) DIST. TRAFFIC (LIST RDWYS BELOW) DIST. GARDENERS/LANDSCAPING NOISE
OTHER: SOME PAINT; CONVERSATION IN LOT ACROSS THE STREET;

DESCRIPTION / SKETCH

TERRAIN HARD SOFT (MIXED) FLAT OTHER:
PHOTOS 3302; 3303; 3304; 3305
OTHER COMMENTS / SKETCH

N

ST1

Rec 1 to 16	Slow Response		dBA weighting		2.0 dB resc
Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin
1/11/2022 11:41	1.0 min	59.2	77	68.4	48.4
1/11/2022 11:42	1.0 min	58.3	76.1	68.2	43.5
1/11/2022 11:43	1.0 min	61.2	79	68.7	44.6
1/11/2022 11:44	1.0 min	57.6	75.4	66.3	48.8
1/11/2022 11:45	1.0 min	60.8	78.6	68.1	45.6
1/11/2022 11:46	1.0 min	68.9	86.7	83.3	44.7
1/11/2022 11:47	1.0 min	54.4	72.2	63.2	41.6
1/11/2022 11:48	1.0 min	65	82.8	77.3	40.7
1/11/2022 11:49	1.0 min	54.1	71.9	64.2	42.9
1/11/2022 11:50	1.0 min	61.4	79.2	68.5	43.3
1/11/2022 11:51	1.0 min	71.8	89.6	84.5	42.3
1/11/2022 11:52	1.0 min	58.3	76.1	69.3	38.6
1/11/2022 11:53	1.0 min	55.9	73.7	63.3	44.3
1/11/2022 11:54	1.0 min	60.7	78.5	70.3	44
1/11/2022 11:55	1.0 min	61.5	79.3	69.1	43.5
1/11/2022 11:56	13 sec	65.7	76.8	70.9	57.9

Leq	63.8
Lmax	84.5
Lmin	38.6

ST2

Slow Response		dBA weighting		2.0 dB resc
LeqPeriod	Leq	SEL	Lmax	Lmin
1.0 min	61.4	79.2	70.3	44.5
1.0 min	69.4	87.2	79.4	46
1.0 min	62.1	79.9	70.2	44.5
1.0 min	63.6	81.4	76.3	45
1.0 min	64.9	82.7	72.4	44.7
1.0 min	51.6	69.4	56.5	42.5
1.0 min	63.2	81	75	42.6
1.0 min	65.9	83.7	77	45.1
1.0 min	58	75.8	67.7	41.6
1.0 min	58.4	76.2	68.8	43.6
1.0 min	63.3	81.1	70.5	42.1
1.0 min	61.3	79.1	72.5	42.9
1.0 min	64.8	82.6	73.3	42.9
1.0 min	60.7	78.5	72.6	43.6
1.0 min	62.8	80.6	72.3	41.7
10 sec	68.5	78.5	73.7	60.2

	63.6
	79.4
	41.6

ST3

Rec 33 to 48	Slow Response		dBA weighting		2.0 dB resc
Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin
1/11/2022 12:32	1.0 min	63	80.8	73.5	44.6
1/11/2022 12:33	1.0 min	60.6	78.4	71.6	42.6
1/11/2022 12:34	1.0 min	66.4	84.2	75.7	41.9
1/11/2022 12:35	1.0 min	66.3	84.1	76.2	42.8
1/11/2022 12:36	1.0 min	58.8	76.6	66.4	44
1/11/2022 12:37	1.0 min	65.3	83.1	74.1	49
1/11/2022 12:38	1.0 min	65.7	83.5	75.4	48.9
1/11/2022 12:39	1.0 min	64.8	82.6	74.8	46.8
1/11/2022 12:40	1.0 min	57.9	75.7	68.2	42.2
1/11/2022 12:41	1.0 min	65.9	83.7	76.6	44.7
1/11/2022 12:42	1.0 min	65.5	83.3	73.3	42.5
1/11/2022 12:43	1.0 min	62.3	80.1	70.1	49.9
1/11/2022 12:44	1.0 min	65.2	83	72.5	44.7
1/11/2022 12:45	1.0 min	68.2	86	76.3	43.5
1/11/2022 12:46	1.0 min	68	85.8	75.2	47.9
1/11/2022 12:47	28 sec	68.4	82.9	76.1	53.8

Leq	65.1
Lmax	76.6
Lmin	41.9

ST4

Rec 49 to 64	Slow Response		dBA weighting		2.0 dB resc
Date hh:mm:ss	LeqPeriod	Leq	SEL	Lmax	Lmin
1/11/2022 13:01	1.0 min	63.2	81	71.5	50.6
1/11/2022 13:02	1.0 min	63.8	81.6	71.4	50.5
1/11/2022 13:03	1.0 min	62.3	80.1	72.4	50
1/11/2022 13:04	1.0 min	62.1	79.9	67.2	52.7
1/11/2022 13:05	1.0 min	65	82.8	70.8	50
1/11/2022 13:06	1.0 min	64.2	82	72.1	55
1/11/2022 13:07	1.0 min	63.8	81.6	71	49.5
1/11/2022 13:08	1.0 min	65.4	83.2	80	44.5
1/11/2022 13:09	1.0 min	69	86.8	80.7	51
1/11/2022 13:10	1.0 min	63.3	81.1	69.4	50.8
1/11/2022 13:11	1.0 min	63.3	81.1	69.5	48.7
1/11/2022 13:12	1.0 min	63.4	81.2	73	47.6
1/11/2022 13:13	1.0 min	65.4	83.2	73.3	48.7
1/11/2022 13:14	1.0 min	61.1	78.9	70.9	49.5
1/11/2022 13:15	1.0 min	55.7	73.5	64.5	44.5
1/11/2022 13:16	8 sec	68.2	77.2	72.4	60.5

Leq	64.1
Lmax	80.7
Lmin	44.5

APPENDIX G-2

Construction Noise Modeling
Input and Output

Northeast_Rcptr_Closest

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Demolition	Dozer	1	40	82		180	0.1		67.1	8	480	63
	Concrete saw	1	20	90		200	0.1		74.0	8	480	67
	Tractor	1	40	84		250	0.1		65.7	8	480	62
	Front end loader	1	40	79		350	0.1		57.4	8	480	53
	Backhoe	1	40	78		250	0.1		59.7	8	480	56
									Total for Demolition Phase:			**69.6**
Site Preparation	Grader	1	40	85		180	0.1		70.1	8	480	66
	Dozer	1	40	82		200	0.1		66.0	8	480	62
	Front end loader	1	40	79		250	0.1		60.7	8	480	57
									Total for Site Preparation Phase:			**67.9**
Grading	Grader	1	40	85		180	0.1		70.1	8	480	66
	Dozer	1	40	82		200	0.1		66.0	8	480	62
	Front end loader	3	40	79		250	0.1		60.7	8	480	62
	Backhoe	1	40	78		350	0.1		56.4	8	480	52
									Total for Grading Phase:			**68.6**
Building Construction	Front end loader	1	40	79		180	0.1		64.1	8	480	60
	Man lift	1	20	75		200	0.1		59.0	8	480	52
	Crane	1	16	81		250	0.1		62.7	8	480	55
	Generator	1	50	72		350	0.1		50.4	8	480	47
	Welder / torch	1	40	73		250	0.1		54.7	8	480	51
	Welder / torch	1	40	73		400	0.1		50.2	8	480	46
	Welder / torch	1	40	73		300	0.1		52.9	8	480	49
									Total for Building Construction Phase:			**62.5**
Paving	Concrete mixer truck	1	40	79		180	0.1		64.1	8	480	60
	Paver	1	50	77		200	0.1		61.0	8	480	58
	Concrete pump truck	1	20	81		250	0.1		62.7	8	480	56
	Roller	2	20	80		350	0.1		58.4	8	480	54
	Backhoe	1	40	78		250	0.1		59.7	8	480	56
									Total for Paving Phase:			**64.3**
Architectural Coating	Compressor (air)	1	40	78		180	0.1		63.1	8	480	59
									Total for Architectural Coating Phase:			**59.1**

Northeast_Rcptr_AC

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	Dozer	1	40	82		480	0.1		57.4	1	60	53
	Concrete saw	1	20	90		480	0.1		65.4	1	60	58
	Tractor	1	40	84		480	0.1		59.4	1	60	55
	Front end loader	1	40	79		480	0.1		54.4	1	60	50
	Backhoe	1	40	78		480	0.1		53.4	1	60	49
									Total for Demolition Phase:			**61.6**
Site Preparation	Grader	1	40	85		480	0.1		60.4	1	60	56
	Dozer	1	40	82		480	0.1		57.4	1	60	53
	Front end loader	1	40	79		480	0.1		54.4	1	60	50
									Total for Site Preparation Phase:			**58.9**
Grading	Grader	1	40	85		480	0.1		60.4	1	60	56
	Dozer	1	40	82		480	0.1		57.4	1	60	53
	Front end loader	3	40	79		480	0.1		54.4	1	60	55
	Backhoe	1	40	78		480	0.1		53.4	1	60	49
									Total for Grading Phase:			**60.3**
Building Construction	Front end loader	1	40	79		480	0.1		54.4	1	60	50
	Man lift	1	20	75		480	0.1		50.4	1	60	43
	Crane	1	16	81		480	0.1		56.4	1	60	48
	Generator	1	50	72		480	0.1		47.4	1	60	44
	Welder / torch	1	40	73		480	0.1		48.4	1	60	44
	Welder / torch	1	40	73		480	0.1		48.4	1	60	44
	Welder / torch	1	40	73		480	0.1		48.4	1	60	44
									Total for Building Construction Phase:			**55.0**
Paving	Concrete mixer truck	1	40	79		480	0.1		54.4	1	60	50
	Paver	1	50	77		480	0.1		52.4	1	60	49
	Concrete pump truck	1	20	81		480	0.1		56.4	1	60	49
	Roller	2	20	80		480	0.1		55.4	1	60	51
	Backhoe	1	40	78		480	0.1		53.4	1	60	49
									Total for Paving Phase:			**57.1**
Architectural Coating	Compressor (air)	1	40	78		480	0.1		53.4	1	60	49
									Total for Architectural Coating Phase:			**49.4**

N_Rcptr_CD

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Demolition	Dozer	1	40	82		25	0.1		87.9	8	480	84
	Concrete saw	1	20	90		50	0.1		89.9	8	480	83
	Tractor	1	40	84		75	0.1		79.6	8	480	76
	Front end loader	1	40	79		50	0.1		78.9	8	480	75
	Backhoe	1	40	78		100	0.1		69.7	8	480	66
									Total for Demolition Phase:			87.1
Site Preparation	Grader	1	40	85		25	0.1		90.9	8	480	87
	Dozer	1	40	82		50	0.1		81.9	8	480	78
	Front end loader	1	40	79		75	0.1		74.6	8	480	71
									Total for Site Preparation Phase:			87.6
Grading	Grader	1	40	85		25	0.1		90.9	8	480	87
	Dozer	1	40	82		50	0.1		81.9	8	480	78
	Front end loader	3	40	79		75	0.1		74.6	8	480	75
	Backhoe	1	40	78		50	0.1		77.9	8	480	74
									Total for Grading Phase:			87.9
Building Construction	Front end loader	1	40	79		25	0.1		84.9	8	480	81
	Man lift	1	20	75		50	0.1		74.9	8	480	68
	Crane	1	16	81		75	0.1		76.6	8	480	69
	Generator	1	50	72		50	0.1		71.9	8	480	69
	Welder / torch	1	40	73		100	0.1		64.7	8	480	61
	Welder / torch	1	40	73		75	0.1		68.6	8	480	65
	Welder / torch	1	40	73		150	0.1		60.0	8	480	56
									Total for Building Construction Phase:			81.8
Paving	Concrete mixer truck	1	40	79		25	0.1		84.9	8	480	81
	Paver	1	50	77		50	0.1		76.9	8	480	74
	Concrete pump truck	1	20	81		75	0.1		76.6	8	480	70
	Roller	2	20	80		50	0.1		79.9	8	480	76
	Backhoe	1	40	78		100	0.1		69.7	8	480	66
									Total for Paving Phase:			83.0
Architectural Coating	Compressor (air)	1	40	78		25	0.1		83.9	8	480	80
									Total for Architectural Coating Phase:			**80.0**

N_Rcptr_AC

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	Dozer	1	40	82		220	0.1		65.0	1	60	61
	Concrete saw	1	20	90		220	0.1		73.0	1	60	66
	Tractor	1	40	84		220	0.1		67.0	1	60	63
	Front end loader	1	40	79		220	0.1		62.0	1	60	58
	Backhoe	1	40	78		220	0.1		61.0	1	60	57
									Total for Demolition Phase:			**69.3**
Site Preparation	Grader	1	40	85		220	0.1		68.0	1	60	64
	Dozer	1	40	82		220	0.1		65.0	1	60	61
	Front end loader	1	40	79		220	0.1		62.0	1	60	58
									Total for Site Preparation Phase:			**66.5**
Grading	Grader	1	40	85		220	0.1		68.0	1	60	64
	Dozer	1	40	82		220	0.1		65.0	1	60	61
	Front end loader	3	40	79		220	0.1		62.0	1	60	63
	Backhoe	1	40	78		220	0.1		61.0	1	60	57
									Total for Grading Phase:			**67.9**
Building Construction	Front end loader	1	40	79		220	0.1		62.0	1	60	58
	Man lift	1	20	75		220	0.1		58.0	1	60	51
	Crane	1	16	81		220	0.1		64.0	1	60	56
	Generator	1	50	72		220	0.1		55.0	1	60	52
	Welder / torch	1	40	73		220	0.1		56.0	1	60	52
	Welder / torch	1	40	73		220	0.1		56.0	1	60	52
	Welder / torch	1	40	73		220	0.1		56.0	1	60	52
									Total for Building Construction Phase:			**62.6**
Paving	Concrete mixer truck	1	40	79		220	0.1		62.0	1	60	58
	Paver	1	50	77		220	0.1		60.0	1	60	57
	Concrete pump truck	1	20	81		220	0.1		64.0	1	60	57
	Roller	2	20	80		220	0.1		63.0	1	60	59
	Backhoe	1	40	78		220	0.1		61.0	1	60	57
									Total for Paving Phase:			**64.7**
Architectural Coating	Compressor (air)	1	40	78		220	0.1		61.0	1	60	57
									Total for Architectural Coating Phase:			**57.0**

NE_Rcptr_CD

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Demolition	Dozer	1	40	82		1000	0.1		50.3	8	480	46
	Concrete saw	1	20	90		1050	0.1		57.8	8	480	51
	Tractor	1	40	84		1100	0.1		51.4	8	480	47
	Front end loader	1	40	79		1150	0.1		45.9	8	480	42
	Backhoe	1	40	78		1050	0.1		45.8	8	480	42
									Total for Demolition Phase:			**54.0**
Site Preparation	Grader	1	40	85		1000	0.1		53.3	8	480	49
	Dozer	1	40	82		1050	0.1		49.8	8	480	46
	Front end loader	1	40	79		1100	0.1		46.4	8	480	42
									Total for Site Preparation Phase:			**51.5**
Grading	Grader	1	40	85		1000	0.1		53.3	8	480	49
	Dozer	1	40	82		1050	0.1		49.8	8	480	46
	Front end loader	3	40	79		1100	0.1		46.4	8	480	47
	Backhoe	1	40	78		1150	0.1		44.9	8	480	41
									Total for Grading Phase:			**52.7**
Building Construction	Front end loader	1	40	79		1000	0.1		47.3	8	480	43
	Man lift	1	20	75		1050	0.1		42.8	8	480	36
	Crane	1	16	81		1100	0.1		48.4	8	480	40
	Generator	1	50	72		1150	0.1		38.9	8	480	36
	Welder / torch	1	40	73		1050	0.1		40.8	8	480	37
	Welder / torch	1	40	73		1250	0.1		39.1	8	480	35
	Welder / torch	1	40	73		1150	0.1		39.9	8	480	36
									Total for Building Construction Phase:			**47.2**
Paving	Concrete mixer truck	1	40	79		1000	0.1		47.3	8	480	43
	Paver	1	50	77		1050	0.1		44.8	8	480	42
	Concrete pump truck	1	20	81		1100	0.1		48.4	8	480	41
	Roller	2	20	80		1150	0.1		46.9	8	480	43
	Backhoe	1	40	78		1050	0.1		45.8	8	480	42
									Total for Paving Phase:			**49.3**
Architectural Coating	Compressor (air)	1	40	78		1000	0.1		46.3	8	480	42
									Total for Architectural Coating Phase:			**42.3**

NE_Rcptr_AC

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80

allowable hours over which Leq is to be averaged = 1

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq
Demolition	Dozer	1	40	82		1350	0.1		47.3	1	60	43
	Concrete saw	1	20	90		1350	0.1		55.3	1	60	48
	Tractor	1	40	84		1350	0.1		49.3	1	60	45
	Front end loader	1	40	79		1350	0.1		44.3	1	60	40
	Backhoe	1	40	78		1350	0.1		43.3	1	60	39
									Total for Demolition Phase:			**51.5**
Site Preparation	Grader	1	40	85		1350	0.1		50.3	1	60	46
	Dozer	1	40	82		1350	0.1		47.3	1	60	43
	Front end loader	1	40	79		1350	0.1		44.3	1	60	40
									Total for Site Preparation Phase:			**48.7**
Grading	Grader	1	40	85		1350	0.1		50.3	1	60	46
	Dozer	1	40	82		1350	0.1		47.3	1	60	43
	Front end loader	3	40	79		1350	0.1		44.3	1	60	45
	Backhoe	1	40	78		1350	0.1		43.3	1	60	39
									Total for Grading Phase:			**50.2**
Building Construction	Front end loader	1	40	79		1350	0.1		44.3	1	60	40
	Man lift	1	20	75		1350	0.1		40.3	1	60	33
	Crane	1	16	81		1350	0.1		46.3	1	60	38
	Generator	1	50	72		1350	0.1		37.3	1	60	34
	Welder / torch	1	40	73		1350	0.1		38.3	1	60	34
	Welder / torch	1	40	73		1350	0.1		38.3	1	60	34
	Welder / torch	1	40	73		1350	0.1		38.3	1	60	34
									Total for Building Construction Phase:			**44.8**
Paving	Concrete mixer truck	1	40	79		1350	0.1		44.3	1	60	40
	Paver	1	50	77		1350	0.1		42.3	1	60	39
	Concrete pump truck	1	20	81		1350	0.1		46.3	1	60	39
	Roller	2	20	80		1350	0.1		45.3	1	60	41
	Backhoe	1	40	78		1350	0.1		43.3	1	60	39
									Total for Paving Phase:			**47.0**
Architectural Coating	Compressor (air)	1	40	78		1350	0.1		43.3	1	60	39
									Total for Architectural Coating Phase:			**39.3**

APPENDIX G-3

Equipment Specifications and Noise Calculations

TECHNICAL GUIDE

R-410A
ZE/ZF/ZR/XN/XP SERIES
3 - 6 TON
60 Hertz

Description

YORK® ZE/ZF/ZR/XN/XP Series units are convertible single package high efficiency rooftops with a common roof curb for the 3, 4, 5 and 6 Ton sizes (ZE, ZR, XN, XP not available in 6 Ton). Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof.

All ZE/ZF/ZR/XN/XP Series units are self-contained and assembled on rigid full perimeter base rails allowing for overhead rigging. Every unit is completely charged, wired, piped and tested at the factory to provide a quick and easy field installation.

All models (including those with an economizer) are convertible between bottom and horizontal duct connections.

ZE/ZF/ZR Series units are available in the following configurations: cooling only, cooling with electric heat, and cooling with one or two stage gas heat. Electric heaters are available as factory-installed option or field installed accessory.

XN/XP Series units are available in the following configurations: cooling and heating only and cooling and heating with electric heat.

Tested in accordance with:

FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

Sound Performance

ZF/ZR/XP Indoor Sound Power Levels

Size (Tons)	CFM	ESP (IWG)	Blower		Sound Power, dB (10^{-12}) Watts								
					Sound Rating[1] dB (A)	Octave Band Centerline Frequency (Hz)							
			RPM	BHP		63	125	250	500	1000	2000	4000	8000
036 (3.0)	1200	0.2	630	0.41	63	82	77	59	50	43	42	40	45
048 (4.0)	1600	0.2	791	0.54	72	95	84	58	54	46	44	45	44
060 (5.0)	2000	0.2	840	0.67	62	84	71	58	53	50	49	49	49
072 (6.0)	2200	0.3	920	1.45	76	61	71	68	67	72	66	61	54

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

ZE/ZF/ZR Outdoor Sound Power Levels

Size (Tons)	Sound Rating[1] dB (A)	Octave Band Centerline Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
036 (3.0)	81	87.5	86.0	81.0	77.0	75.0	69.5	65.5	70.5
048 (4.0)	80	84.5	81.0	80.0	78.0	75.0	70.0	67.0	70.5
060 (5.0)	82	86.5	87.5	81.5	77.5	75.0	71.5	68.0	70.5
072 (6.0)	83	-	84.0	85.0	79.0	80.0	72.0	67.5	62.5

1. Rated in accordance with AHRI 270 standard.

XN/XP Outdoor Sound Power Levels

Size (Tons)	Sound Rating[1] dB (A)	Octave Band Centerline Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
036 (3.0)	76	83.5	84.5	76.5	72.0	68.0	66.0	60.0	56.0
048 (4.0)	80	85.0	83.0	81.0	77.5	75.5	71.5	67.5	61.5
060 (5.0)	80	86.0	84.0	81.0	77.0	75.5	71.0	66.5	60.5

1. Rated in accordance with AHRI 270 standard.

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Headstart to NE	1627.6	2285.0	0.0	65		
Residence to N	1510.6	2040.0	0.0	55		

Output:

Location:				Applicable Standard
N1	1510.6	2135.5	0	65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1510.6368	2135.5424	York ZF-048	48	5	39.5	220	210	10	36.5	2.8	20.58	26	35	15
Bldg SE 2	1504.7984	1915.5856	36.5	1510.6368	2135.5424	York ZF-049	48	5	39.5	220	210	10	36.5	2.8	20.55	26	35	15
																TOTAL Leq:	38	18
																	Without Barrier	With Barrier/ Parapet

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Headstart to NE	1627.6	2285.0	0.0	65		
Residences to N	1510.6	2040.0	0.0	55		

Output:

Location: W1 1137.8 1914.1 0.0 Applicable Standard 65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1137.7664	1914.1096	York ZF-048	48	5	39.5	384	258	126	36.5	2.8	2.73	18	31	13
Bldg SE 2	1504.7984	1915.5856	36.5	1137.7664	1914.1096	York ZF-049	48	5	39.5	367	238	129	36.5	2.8	2.56	17	31	14
																TOTAL Leq:	34	16
																	Without Barrier	With Barrier/ Parapet

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Headstart to NE	1627.6	2285.0	0.0	65		
Residence to N	1510.6	2040.0	0.0	55		

Output:

Location: E1 1547.6 2021.6 0.0 Applicable Standard 65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1547.6352	2021.5952	York ZF-048	48	5	39.5	109	35	74	36.5	2.8	1.99	16	42	25
Bldg SE 2	1504.7984	1915.5856	36.5	1547.6352	2021.5952	York ZF-049	48	5	39.5	114	45	69	36.5	2.8	2.62	17	41	24
																TOTAL Leq:	44	28
																	Without Barrier	With Barrier/ Parapet

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Headstart to NE	1627.6	2285.0	0.0	65		
Residence to N	1510.6	2040.0	0.0	55		

Output:

Location:				Applicable Standard
SE1	1542.8	1870.7	0.0	65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1542.8136	1870.748	York ZF-048	48	5	39.5	50	20	30	36.5	2.8	4.32	20	48	29
Bldg SE 2	1504.7984	1915.5856	36.5	1542.8136	1870.748	York ZF-049	48	5	39.5	59	25	34	36.5	2.8	4.45	20	47	27
																TOTAL Leq:	51	31
																	Without Barrier	With Barrier/ Parapet

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Head Start to NE	1627.6	2285.0	0.0	65		
Residence to N	1510.6	2040.0	0.0	55		

Output:

Location:				Applicable Standard
Head Start to NE	1627.6	2285.0	0.0	65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1627.6352	2285	York ZF-048	48	5	39.5	384	35	349	36.5	2.8	0.12	7	31	23
Bldg SE 2	1504.7984	1915.5856	36.5	1627.6352	2285	York ZF-049	48	5	39.5	389	45	344	36.5	2.8	0.16	8	30	23
																TOTAL Leq:	34	26
																	Without Barrier	With Barrier/ Parapet

MECHANICAL EQUIPMENT NOISE LEVEL

Input:

Equipment Locations / Source Noise Data

Site	X	Y	Elev. At Roof or Ground	Source Height	LwA Single Source	Number of Units	Sound Level at 50 feet Total	Equip. Location Site / Number	
Bldg SE 1	1521.3	1915.8	36.5	3	80	1	48	Bldg SE 1	York ZF-048
Bldg SE 2	1504.8	1915.6	36.5	3	80	1	48	Bldg SE 2	York ZF-049

Frequency (in Hz) 500

Receivers at P.L. and Vicinity				Applicable Standard	Building Elevation	Roof Elevation
					0	36.5
N1	1510.6	2135.5	0.0	65		
W1	1137.8	1914.1	0.0	65		
SE1	1542.8	1870.7	0.0	65		
E1	1547.6	2021.6	0.0	65		
Head Start to NE	1627.6	2285.0	0.0	65		
Residence to N	1510.6	2040.0	0.0	55		

Output:

Location:				Applicable Standard
Head Start to NE	1627.6	2285.0	0.0	65

Equip Site	Source Coordinates X	Y	Z	Receiver Coordinates X	Y	Location-Equipment	Leq (h) at 50' (dBA)	Receiver Elevation (feet)	Source Elevation (feet)	Source to Receiver (feet)	Source to Barrier (feet)	Receiver to Barrier (feet)	Barrier (base) (feet)	Barrier Height (feet)	Fresnel No. at 500 Hz	Barrier Attenuation (dBA)	Leq w/o Barrier (dBA)	Leq w/Barrier (dBA)
Bldg SE 1	1521.3296	1915.8152	36.5	1627.6352	2285	York ZF-048	48	5	39.5	384	35	349	36.5	2.8	0.12	7	31	23
Bldg SE 2	1504.7984	1915.5856	36.5	1627.6352	2285	York ZF-049	48	5	39.5	389	45	344	36.5	2.8	0.16	8	30	23
																TOTAL Leq:	34	26
																	Without Barrier	With Barrier/ Parapet

Appendix H

Transportation Impact Assessment

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MEMORANDUM

To:	Matt Bennett, Assistant Public Works Director, City of Highland
From:	Mladen Popovic, AICP, Transportation Planner Dennis Pascua, Transportation Services Manager
Subject:	Transportation Assessment for the 3rd Street and Central Avenue Warehouse Project
Date:	May 11, 2022
cc:	Anne Hernandez, P.E., QSD, QSP, Hernandez, Kroone & Associates
Attachment(s):	Figures 1-5 Attachment A – Traffic Scoping Form Attachment B – The Landing by San Manuel TIA Information

The following transportation assessment analyzes the potential transportation impacts associated with the proposed 3rd Street/Central Avenue Warehouse project (proposed project), located in the City of Highland (City) in western San Bernardino County (County). In coordination with City staff, this assessment includes the project's trip generation, a vehicle miles traveled (VMT) screening analysis, an evaluation of project access, and an analysis of pedestrian, bicycle, and transit facilities that serve the site. The Traffic Scoping Form is provided in Attachment A.

This assessment was prepared consistent with the City of Highland Public Works Policies, Procedures and Standards (2022), and the San Bernardino Council of Governments (SANBAG) Congestion Management Program (CMP 2016) to determine the level of analysis required based on the number of two-way peak hour trips generated by the project. Additionally, based on guidance from City of Highland staff, the City of San Bernardino's Traffic Impact Analysis Guidelines, were utilized to evaluate the project. Many of the VMT criteria listed in the City of San Bernardino's Guidelines are based on the Governor's Office of Planning and Research (OPR) Guidelines (OPR, 2018). According to all applicable guidelines, a level of service (LOS) analysis was not required since the project would generate less than 100 peak hour trips. For more information regarding the project's trip generation, please see Section 3 Project Trip Generation.

1 Project Description

The project site consists of vacant parcels located on an approximately three acre site on the northwestern corner of 3rd Street/Central Avenue. The project proposes to construct a 54,330 square feet (SF) industrial warehouse building. Within the 54,330 SF warehouse building, there would be a total of 6,000 SF of office/mezzanine space. It should be noted that the size of the project has been slightly reduced compared to what was approved in the Traffic Scoping Form (a 56,184 SF industrial warehouse). The parking supply for passenger vehicles would be a total of 64 spaces, consisting of 49 standard spaces, 1 vanpool parking space, 3 accessible spaces compliant with the Americans with Disabilities Act (ADA), 4 clean air vehicle spaces, and 7 electric vehicle spaces (including 1 electric van ADA space and 1 electric ADA space). Figure 1 illustrates the project site plan. The project proposes two driveways, one on Central Avenue, and one on 3rd Street. A separate parking study was prepared by Dudek to

evaluate the project's parking supply and the City's parking requirements. The proposed vehicular circulation to the project site would include both full and partial ingress/egress points, as follows:

- southern driveway/3rd Street (Project Driveway A)
  - Passenger cars have full inbound and outbound access, with all movements permitted.
  - Trucks have full inbound access and partial outbound access, outbound left-turns prohibited.
- Central Avenue/eastern driveway (Project Driveway B)
  - Passenger cars have full inbound and outbound access, with all movements permitted.

2 Existing Setting

This section describes key study area roadways, as well as transit, pedestrian, and bicycle facilities within the vicinity of the project. Regional and site access is also described. Figure 2 displays the project location and study area.

2.1 Roadway Network

Central Avenue is a north-south, two-lane undivided roadway located adjacent to the eastern boundary of the project site. Central Avenue originates north of State Route 210, at Highland Avenue and terminates at 3rd Street. In the vicinity of the project, Central Avenue is not designated in the City's General Plan Circulation Element, however north of 5th Street Central Avenue is designated as a Major Highway. The section of Central Avenue adjacent to the project site is not currently built to its ultimate right-of-way (ROW). The project would provide the ROW necessary for consistency with the General Plan and Central Avenue's buildout conditions. Central Avenue has a posted speed limit of 25 miles per hour (MPH). The segment of roadway adjacent to the site is unimproved (i.e., no curb and gutter, and no sidewalk), except for a portion of the west side of the road near the Central Avenue/5th Street intersection.

3rd Street is an east-west, four-lane (mostly) undivided roadway with a two-way left-turn lane located adjacent to the southern boundary of the project site. 3rd Street stretches across the southern extent of the City, from D Street in the City of San Bernardino to the west, to past Alabama Street to the east. 3rd Street is designated as a Major Highway per the City's General Plan Circulation Element. The project would improve the pedestrian and ROW as required along 3rd Street along the project's frontage. 3rd Street is also designated as a truck route, with a posted speed limit of 45 MPH. Curb and gutter is constructed, and pedestrian facilities are provided along this portion of Central Avenue adjacent to the project site, except for a portion of the northern side of 3rd Street near the Central Avenue/3rd Street intersection.

5th Street is an east-west, four-lane undivided roadway with a two-way left-turn lane and stretches across the southern extent of the City of Highland, merging into U.S. Highway 66 in the City of San Bernardino to the west and merges into Greenspot Road in the east. 5th Street is designated as a Major Highway per the City's General Plan Circulation Element. 5th Street Avenue is also designated as a truck route, with a posted speed limit of 45 MPH. Curb and gutter is constructed, and pedestrian facilities are provided along 5th Street.

2.2 Transit Facilities

The City of Highland is served predominantly by bus services via Omnitrans, which provides service throughout San Bernardino County. Additionally, the San Bernardino Transit Center, located approximately 5-miles west of the project, provides greater regional access via Metrolink and Amtrak rail stations. A description of each bus route serving the project site is provided below.

Omnitrans Route 15 is the nearest bus route that services the project site. Route 15 connects the Fontana Metrolink Transit Center, the San Bernardino Transit Center, and the Redlands Transit Center, and also provides stops within the City of Highland. The nearest bus stop to the project site is located at the intersection of 5th Street/Central Avenue, approximately 750-feet north of the project. Route 15 provides daily service with average headways of approximately one hour, with service beginning as early as 5:05 a.m. and ending as late at 9:45 p.m. on weekdays (Omnitrans, 2022).

2.3 Pedestrian and Bicycle Facilities

Pedestrian Facilities

Pedestrian facilities are provided along the frontage of the project site on 3rd Street, with a continuous sidewalk to Victoria Avenue, however at the intersection of 3rd Street/Central Avenue, the sidewalk ends. Additionally, along both sides of Central Avenue, there are no pedestrian facilities, except for a portion of the west side of the road near the Central Avenue/5th Street intersection. The project will improve the curb and gutter, and pedestrian facilities where the project frontage exists, and follow all of the City's standard plans and guidelines for pedestrian facilities, curb and gutter, and drainage. The project is not expected to generate a significant amount of pedestrians and therefore, would not affect existing pedestrian facilities.

Bicycle Facilities

The City of Highland has three classifications of Bikeways: Class I Bike Paths, Class II Bike Lanes, and Class III Bike Routes. The City of Highland General Plan Circulation Element (2006) uses the following definitions for each bikeway classification:

Class I (Bike Path)

A Class I Bike Path serves corridors that are not served by streets and highways or where wide rights-of-way exist, permitting a separation from roadway traffic. These routes may serve a variety of users and provide recreational opportunities for bicycle, equestrian and pedestrian users. Class I facilities are planned on Boulder Avenue from City Creek to Plunge Creek. Class I Bike Paths should also be considered on "Old" and "New" Greenspot Road south and east of the Santa Ana River Trail System.

Class II (Bike Lane)

Class II Bike Lanes are intended to delineate the rights-of-way assigned to bicyclists and motorists, and to provide for more predictable movements of each. Bike lanes of this class may also help accommodate bicyclists through corridors where insufficient room exists for safe bicycling on existing streets. This can be accomplished by reducing the number of lanes, prohibiting parking on bike lane streets, or striping (see Figure 3.1, Roadway Cross-Sections,

of the Circulation Element for bike lane street standards). This class of bikeway links the bike paths to provide a designated system for bicycle commuting to major destination points (e.g., the Town Center, the Golden Triangle, etc.) and the regional trails system.

Class III (Bike Route)

Class III Bike Routes are considered shared facilities serving either to provide continuity to other bicycle facilities or to designate preferred routes through high-demand corridors. Such bikeways are designated using signage along the roadway without special street striping.

As discussed above, the only bicycle facilities in the vicinity of the Project site are Class II Bike Lanes along 3rd Street. The project is not expected to generate a significant amount of bicyclists and therefore would not affect the existing bicycle facilities.

3 Project Trip Generation

The following discussion provides an overview of the trip generation, distribution and assignment of traffic associated with the project.

3.1 Trip Generation

Trip generation estimates for the project are based on daily and AM and PM peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) *Trip Generation, 11th Edition* (2021), using the Warehousing land use (ITE Code 150).

PCE factors were also applied to the trip generation estimates to account for truck traffic. The City of Highland indicates that projects with high truck percentages should convert project trips to PCE. A 1.5 PCE factor was applied to 2-axle trucks, 2.0 PCE for 3-axle trucks, and a 3.0 PCE factor was applied to 4-axle trucks per the San Bernardino County CMP. Table 1 presents the project's daily, and AM and PM peak hour trip generation estimates.

Table 1. Project Trip Generation Summary

Land Use	ITE Code	Size/Units		Daily	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Trip Rates[1]										
Warehousing	150	TSF		1.71	0.13	0.04	0.17	0.05	0.13	0.18
Trip Generation										
3rd Street and Central Avenue Warehouse	150	54.330	TSF	93	7	2	9	3	7	10
Trip Generation (PCE Adjustments)										
Warehousing Vehicle Mix[2]		Percent[2]								
Passenger Vehicles		72.5%		68	5	2	7	2	5	7
2-Axle Trucks		4.6%		4	0	0	0	0	0	0
3-Axle Trucks		5.7%		5	1	0	1	0	1	1

4+-Axle Trucks	17.2%	16	1	0	1	1	1	2
Project Trip Generation (Non-PCE)		**93**	**7**	**2**	**9**	**3**	**7**	**10**
	PCE Factor[3]							
Passenger Vehicles	1.0	68	5	2	7	2	5	7
2-Axle Trucks	1.5	6	0	0	0	0	0	0
3-Axle Trucks	2.0	10	2	0	2	0	2	2
4+-Axle Trucks	3.0	48	3	0	3	3	3	6
Project Trip Generation (PCE)		**132**	**10**	**2**	**12**	**5**	**10**	**15**

Notes: TSF = Thousand Square Feet
1 Trip rates from the Institute of Transportation Engineers (ITE), Trip Generation, 10th Edition, 2017.
2 Vehicle Mix and Percent from SCAQMD, Warehouse Truck Trip Study Data Results and Usage, July 2014.
3 Passenger Car Equivalent (PCE) factors per the San Bernardino County Congestion Management Program (CMP), 2016.

As detailed above, the project would generate 93 daily trips, 9 AM peak hour trips (7 inbound and 2 outbound), and 10 PM peak hour trips (3 inbound and 7 outbound). With the application of PCE factors for truck traffic, the project would generate 132 daily PCE trips, 12 AM peak hour PCE trips (10 inbound and 2 outbound), and 15 PM peak hour PCE trips (5 inbound and 10 outbound).

3.2 Trip Distribution and Assignment

Project trip distribution percentages are based on logical travel paths to and from the project site, review of traffic studies conducted for nearby projects, and consideration of the traffic distribution patterns in the area. Figure 3 illustrates the project trip distribution and trip assignments with PCE. As discussed previously, the project driveway along Central Avenue would be a full access driveway. Inbound trucks would enter along the driveway on 3rd Street, and full access would be permitted; however, outbound trucks would be prohibited from turning left onto 3rd Street and would be required to turn right onto 3rd Street. This access restriction will be enforced via signage and was required by the City due to possible conflict of trucks from The Landing by San Manuel project located across 3rd Street in the City of San Bernardino.

4 VMT Analysis

4.1 VMT Analysis for CEQA

On September 27, 2013, Senate Bill (SB) 743 was signed into law, which creates a process to change the way that transportation impacts are analyzed under California Environmental Quality Act (CEQA). SB 743 required the Governor's Office of Planning and Research (OPR) to amend the CEQA Guidelines to provide an alternative to LOS for evaluating transportation impacts. Under the new transportation guidelines, LOS, or vehicle delay, will no longer be considered an environmental impact under CEQA. OPR recommended vehicle miles traveled (VMT) as the most appropriate measure of project transportation impacts for land use projects and land use plans. The updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. The OPR Technical Advisory (OPR 2018) provides guidance and tools to properly carry out the principles within SB 743 and how to evaluate transportation impacts in CEQA.

Under these guidelines, VMT has been adopted as the most appropriate measure of transportation impacts under CEQA. The OPR's regulatory text indicates that a public agency may immediately commence implementation of the

new transportation impact guidelines, and that the guidelines must be implemented statewide by July 1, 2020. The Updated CEQA Guidelines state that "*…generally, vehicle miles traveled (VMT) is the most appropriate measure of transportation impacts…*" and define VMT as "*…the amount and distance of automobile travel attributable to a project…*". It should be noted that "automobile" refers to on-road passenger vehicles, specifically cars and light trucks. Heavy-duty truck VMT could be included for modeling convenience and ease of calculation (for example, where models or data provide combined auto and heavy truck VMT). Other relevant considerations may include the effects of the project on transit and non-motorized travel.

Although the project is located within the boundary of the City of Highland, the City has adopted the City of San Bernardino's CEQA Assessment – VMT Analysis Guidelines, which were developed in coordination with the San Bernardino County Transportation Authority (SBCTA) with support of agencies throughout the county. Therefore, the City of San Bernardino's CEQA Assessment – VMT Analysis Guidelines were utilized as the primary source of analysis of VMT and transportation-related impacts herein. The guidance developed is generally based upon the OPR Guidelines and thresholds.

The details of applicable screening and VMT analysis methodology are provided below. If the project does not meet the applicable screening criteria, then further analysis is required.

4.2 Project Screening

As stated previously, the City of San Bernardino's VMT Guidelines were utilized within this memorandum as the primary source of analysis of VMT and transportation-related impacts. The VMT Guidelines suggest that land use projects may screen out of VMT impacts using a variety of factors. The following steps have been used in screening the project's VMT assessment, consistent with the applicable VMT guidelines for SB 743 compliance:

- **Transit Priority Area (TPA) Screening:**
  - Projects located within one-half mile of a TPA is defined as one-half mile area around an existing major transit stop[1] or an existing stop along a high quality transit corridor.[2]

The Project is not within one-half mile of a TPA, and therefore cannot be presumed to be less than significant under this threshold.

- **Low-VMT Area Screening:**
  - Low-VMT generating areas (as shown in the SBCTA screening tool). A low VMT area is defined as an individual traffic analysis zone (TAZ) where total daily Origin/Destination VMT per service population is lower than the City average total daily Origin/Destination VMT per service population.

The project is not located in a low-VMT generating area.

- **Local Serving Uses and Small Projects Presumed to have Less Than Significant Impact:**

[1] Pub. Resources Code, § 21064.3 - 'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.

[2] Pub. Resources Code, § 21155 - For purposes of this section, a 'high-quality transit corridor' means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.

- Local parks
- Day care centers
- Local serving retail uses less than 50,000 square feet, including:
  - Gas Stations
  - Banks
  - Restaurants
  - Shopping Center
- Student housing projects on or adjacent to college campuses
- Local serving assembly uses (places of worship, community organizations)
- Community institutions (public libraries, fire stations, local government)
- Hotels (non-destination or resort; no banquet or special event space)
- Affordable or supportive housing
- Assisted living facilities
- Senior housing
- Local serving community colleges that are consistent with the assumptions noted in the Regional Transportation Plan/Sustainable Communities Strategy
- 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 units
    - 10,000 SF of office
    - 15,000 SF of light industrial
    - 63,000 SF of warehousing
    - 79,000 SF of high cube transload and short-term storage warehouse

Based on the trip generation estimates provided in Table 1, the project would generate 93 daily trips, 9 AM peak hour trips (7 inbound and 2 outbound), and 10 PM peak hour trips (3 inbound and 7 outbound). Since the project would generate fewer than 110 daily vehicle trips, the project impacts would be less than significant. Therefore, a detailed VMT analysis is not required, and the project would not conflict or be inconsistent with CEQA Guidelines Section 150645.3(b).

As shown in the screening analysis above, the project would be screened out based on its daily traffic generation being less than 110 daily trips. Therefore, further VMT analysis is not required and the project's impact to VMT can be presumed to be less than significant.

5 Project Access

5.1 Site Circulation

The project proposes two driveways, one along Central Avenue, and another along 3rd Street. The proposed vehicular circulation to the project site would include both full and partial ingress/egress points, as follows:

- southern driveway/3rd Street (Project Driveway A)
    - Passenger cars have full inbound and outbound access, with all movements permitted.
    - Trucks have full inbound access and partial outbound access, outbound left-turns prohibited.
- Central Avenue/eastern driveway (Project Driveway B)
    - Passenger cars have full inbound and outbound access, with all movements permitted.

As shown previously in Figure 1, Site Plan, a majority of passenger cars would be expected to utilize the Central Avenue driveway (Project Driveway B), while all trucks would be required to utilize the 3rd Street driveway (Project Driveway A). Figure 3, Project Trip Distribution and Assignment – PCE, also further displays the project's access descriptions and restrictions.

In order to assess the degree to which the largest truck expected for the project could be accommodated along Project Driveway A, *AutoTurn Pro 11* software was utilized to evaluate egress and ingress of a WB-67 AASHTO vehicle. Figure 4 shows the inbound access of the vehicle, while Figure 5 shows the outbound exit of the truck. As shown in both figures, the driveway and overall design of the site would be sufficient to accommodate a 67-foot long tractor trailer truck. It is important to note that depending on the final tenant of the site, potential truck traffic could include smaller trucks, and therefore, the AutoTurn analysis represents a conservative estimate. Therefore, both Central Avenue and 3rd Street are expected to have enough width to accommodate both passenger cars and trucks. Project Driveway A, along 3rd Street would be located such that trucks exiting the site would be visible to oncoming traffic. For both project driveways there are currently no visual obstructions to oncoming or outgoing traffic from the project site.

Additionally, the project site would be readily accessible by emergency vehicles along any of the roadways listed above. As shown on Figure 1, Site Plan, there would an approximately 26-foot fire lane within both driveways allowing for adequate emergency vehicle access to the project site. Therefore, the project would have a less than significant impact on emergency vehicles.

6 Fair Share

6.1 Future Traffic Signal at 3rd Street/Central Avenue

Per the City, it is the project's responsibility to implement the needed improvements to the City's satisfaction either through construction of the improvement(s), fair-share payment to the improvement(s), or payment of City fees. If improvements are included in a fee program, the cost of implementing the improvements could be credited against

fees payable by the project. These operational improvements are generally listed in the conditions of approval of projects.

Per the City's request, the project's fair-share percentage (contribution) to the future installation of a traffic signal at 3rd Street/Central Avenue was calculated. As determined from *The Landing by San Manuel TIA* (Urban Crossroads 2020), the unsignalized intersection of 3rd Street/Central Avenue is forecast to operate at deficient levels of service in the buildout year. Although this intersection was not evaluated for LOS in this assessment due to the proposed project generating fewer than 100 peak hour trips, the proposed project would still generate approximately 5 AM peak hour trips and 5 PM peak hour trips through this intersection. Therefore, the 2040 volumes from The Landing by San Manuel TIA were utilized, and the proposed project's peak hour trips were added, to compute the fair share contribution. Please see Section 6, Fair Share Calculations for more information. All information utilized in *The Landing by San Manuel TIA* is provided in Attachment B.

The Project's fair share cost is calculated based on the following formula, which estimates the ratio of Project-related traffic to all new traffic between 2021 and the Horizon Year 2040:

Project Fair Share % = Project Traffic / (Horizon Year 2040 plus Project Traffic – Existing Year 2020 Traffic)

6.2 Fair Share Calculations

Table 2 provides a breakdown of the project's fair share contributions to the above recommended improvements per the methodology provided above, and Table 3 provides a summary of planning-level costs associated with these improvements where per unit cost estimate information is available.

Table 2. Project Fair Share Summary

Intersection or Roadway Segment	Study Time Period	Existing Traffic[1]	Project Traffic	Future Year (2040) plus Project[2]	Net New Traffic	% Project Traffic of Net New Traffic
Central Avenue/3rd Street	AM	673	5	1,420	747	0.67%
	PM	1,254	5	2,171	917	0.55%

Notes:
1 Existing traffic volumes are based on The Landing by San Manuel project and is from the year 2020.
2 Future Year (2040) plus Project volumes include The Landing by San Manuel project's 2040 with Project Volumes, combined with the proposed project's volumes at the intersection.

As shown in Table 2, the project's highest percentage of fair share would be approximately 0.67% in the AM peak hour. As shown in Table 3, the project's fair share cost would be approximately $4,020.

Table 3. Project Fair Share Cost Estimates

Intersection or Roadway Segment	Jurisdiction	Future Year (2040) plus Project	Improvement in Fee Program?[1]	Project Responsibility[2]	Cost of Improvement[3]	Fair Share %[4]	Fair Share Cost[5]
Central Avenue/3rd Street	City of Highland	Install a traffic signal	No	Fair Share	$600,000	0.67%	$4,020
				Total	**$600,000**		**$4,020**

Notes:

1 Improvements included in City of Highland Development Impact Fee (DIF) or the San Bernardino County Transportation Authority (SBCTA) Congestion Management Program (CMP) fee programs.

2 Identifies either the Project's responsibility to construct an improvement or contribute fair share towards the implementation of improvements.

3 San Bernardino County CMP, 2003 Update; Preliminary Construction Cost Estimates for Congestion Management Plan in conjunction with a cost escalation factor of 1.568 to reflect 2020 conditions.

4 Improvements listed may be eligible for fee credit, per City of Highland discretion. See Table 16, Project Fair Share Summary.

5 Rough cost estimates, provided for planning-level purposes only.

7 Summary and Conclusions

The project site consists of vacant parcels located on an approximately 3-acre site on the northwestern corner of 3rd Street/Central Avenue. The project proposes to construct a 54,330 square feet (SF) industrial warehouse building. Within the 54,330 SF warehouse building, there would be a total of 6,000 SF of office/mezzanine space. The project would provide two driveways, one along Central Avenue and one along 3rd Street. A majority of passenger cars would be expected to utilize the Central Avenue driveway (Project Driveway B), while all trucks would be required to utilize the 3rd Street driveway (Project Driveway A). Figure 3, Project Trip Distribution and Assignment – PCE, also further displays the project's access descriptions and restrictions. Central Avenue is expected to be built out do the project site's boundary to its ultimate ROW.

As shown in Table 1, the project would generate 93 daily trips, 9 AM peak hour trips (7 inbound and 2 outbound), and 10 PM peak hour trips (3 inbound and 7 outbound). With the application of PCE factors for truck traffic, the project would generate 132 daily PCE trips, 12 AM peak hour PCE trips (10 inbound and 2 outbound), and 15 PM peak hour PCE trips (5 inbound and 10 outbound). Additionally, a VMT screening analysis was performed, and it was determined a VMT analysis is not warranted based on the screening criteria listed in Section 4.2. Since the project would generate fewer than 110 daily vehicle trips, no further VMT analysis was required.

The roadways that would provide site access and driveway access to the project site are wide enough to accommodate emergency vehicles and large trucks as necessary. *AutoTurn Pro 11* software was utilized to evaluate egress and ingress of trucks along Project Driveway A on 3rd Street. The driveway and overall design of the site would be sufficient to accommodate a 67-foot long tractor trailer truck. It is important to note that depending on the final tenant of the site, potential truck traffic could include smaller trucks, and therefore, the AutoTurn analysis represents a conservative estimate. Therefore, both Central Avenue and 3rd Street are expected to have enough width to accommodate both passenger cars and trucks as necessary. Project Driveway A, along 3rd Street would be located such that trucks exiting the site would be visible to oncoming traffic and there are no visual obstructions to oncoming or outgoing traffic from the project site.

In order to accommodate the potential for future signalization of the Central Avenue/3rd Street intersection, a fair share calculation was performed utilizing the proposed project's trip generation and data from The Landing by San Manuel project. The project's fair share contribution would be approximately 0.67% in the AM peak hour. As shown in Table 3, the project's fair share cost would be approximately $4,020.

8 References

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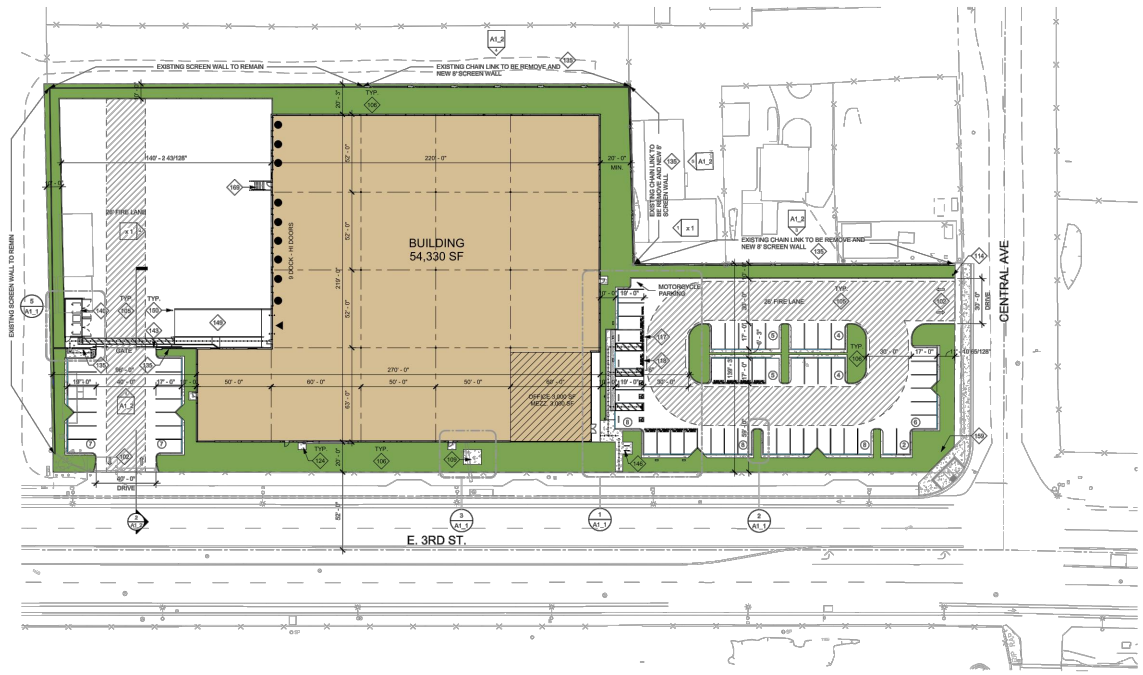

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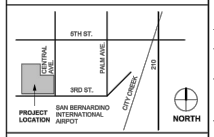
SCOPE OF WORK
CONSTRUCT NEW ONE STORY CONCRETE TILT-UP WAREHOUSE/DISTRIBUTION FACILITY WITH EXTERIOR LIGHTING, FIRE SPRINKLERS, ON SITE AND OFF-SITE IMPROVEMENTS INCLUDING GRADING, STORM DRAINS, WATER, SEWR, FIRE HYDRANTS, LANDCAPE, IRRIGATION AND HARDSCAPE, TRASH ENCLOSURES, CONCRETE SCREEN WALLS, AND SLIDING/SWINGING METAL GATES AS SHOWN.

LEGAL DESCRIPTION & ZONING
LEGAL DESCRIPTION: SEE SHEET C1 FOR APN ASSESSOR'S PARCEL NO: SEE SHEET C1 FOR APN SPECIFIC PLAN LEGEND: ZONING: BUSINESS PARK

SHEET INDEX

A0	COVER SHEET
A1	SITE PLAN
A1_1	ENLARGED SITE PLANS
A1_2	GATE & FENCE ELEVATIONS
A1_3	SCREEN WALL PLAN & ELEVATIONS
A2	GROUND LEVEL FLOOR PLANS
A4	EXTERIOR ELEVATIONS
C1	PRELIMINARY GRADING PLAN
L1	CONCEPTUAL LANDSCAPE PLAN

VICINITY MAP



SITE PLAN GENERAL NOTES

1. THE SITE PLAN SHALL MEET ALL ENGINEERING & NPDES REQUIREMENTS.
2. GENERAL CONTRACTOR TO REVIEW THE SOILS REPORT AND ALL AMMENDMENTS LISTED ON THE TITLE SHEET AND FOLLOW ALL RECOMMENDATIONS.
3. U.O.N., ALL DIMENSIONS TO CONCRETE WALLS AND CURBS ARE EITHER TO THE CENTER (SHOWN WITH A CENTERLINE) OR FACE OF THE WALL OR CURB. ALL DIMESIONS TO FRAMED WALLS ARE EITHER TO THE CENTER LINE OF THE WALL FRAMING (SHOWN WITH A CENTERLINE) OR THE FACE OF THE WALL FINISH.
4. REFER TO CIVIL AND MEP PLANS TO CONFIRM UTILITY CONNECTIONS SHOWN ON THE ARCHITECTS SITE PLAN AND FOR ADDITIONAL UTILITY INFORMATION. GENERAL CONTRACTOR TO COORDINATE ALL POINTS OF CONNECTION.
5. REFER TO CIVIL DRAWINGS FOR ALL FINISHED GRADES AND SLOPES. ALL FINISHED GRADES TO PROVIDE POSITIVE DRAINAGE AWAY FORM THE BUILDING. GENERAL CONTRACTOR TO FIELD VERIFY.
6. ALL ACCESSIBLE ROUTES INDENTIFIED ON THE SITE PLAN DRAWINGS SHALL CONFORM TO THE FOLLOWING:
   a) SLOPES IN THE DIRECTION OF TRAVEL DO NOT EXCEED 5%. CROSS SLOPES DO NOT EXCEED 2%.
   b) THE CLEAR WIDTH OF ALL WALKWAYS IS 4'-0" MIN.
   c) CHANGES IN LEVEL UP TO 1/2" COMPLY w/ 11A9.2.1. CHANGES IN LEVEL GREATER THAN 1/2" IF THEY OCCUR ARE RAMPED. SEE PLANS
   d) THE VERTICAL CLEARANCE ALONG THE ACCESSIBLE ROUTE IS 80" MIN.
7. ALL PAVED AND LANDSCAPED AREAS TO BE BOUND BY A MIN. 6" HIGH x 6" WIDE CONCRETE CURB U.O.N.
8. A CONCRETE MOW STRIP EXTENDING 12" BEYOND EA END OF THE OPENING SHALL BE PROVIDED @ ALL EXTERIOR GLAZING WHERE THE SILL IS WITHIN 3' VERICAL OF THE FINISHED GRADE. SEE 2/AD1.1
10. PROVIDE PIPE BOLLARD PROTECTION POSTS AS REQUIRED BY UTILITY COMPANIES AND OR FIRE AUTHORITIES AT ALL EXTERIOR ELECTRICAL EQUIPMENT AND FIRE PREVENTION DEVICES. IF PIPE BOLLARD PROTECTION POST DETAILS ARE NOT PROVIDED BY UTILITY COMPANIES AND OR FIRE AUTHORITIES SEE DETAIL 1/AD1.1
11. ALL EXPOSED BIORETENSION DEVICE COVERINGS SHALL BE PAINTED FORREST GREEN.
12. WHERE OCCURS, GENERAL CONTRACTOR TO PROVIDE FLUID APPLIED DAMP PROOFING AT ALL RETAINING AND PLANTER WALLS WHERE THE SIDE OF THE WALL OPPOSITE THE SOIL SIDE IS EXPOSED TO VIEW AND ALL EXTERIOR WALLS WHERE THE ADJACENT FLOOR SLAB IS BELOW GRADE. SEE 19/AD1.1

KEYNOTES

102	PROPOSED DRIVEWAY, PER JURISDICTIONAL STANDARDS.
105	CONCRETE PAVING.
106	@ SHADING, PROPOSED LANDSCAPED AREA. SEE LANDSCAPING PLANS.
109	(N) TRANSFORMER LOCATION.
114	ACCESSIBLE SITE ENTRANCE SIGN.
117	FUTURE STANDARD ACCESSIBLE EV CHARGING ONLY PARKING STALL. PROVIDE FOR FUTURE INSTALLATION OF CHARGING EQUIPMENT.
119	FUTURE VAN ACCESSIBLE EV CHARGING ONLY PARKING STALL. PROVIDE FOR FUTURE INSTALLATION OF CHARGING EQUIPMENT.
134	EXERIOR CONCRETE LANDING.
135	CONCRETE TILT-UP SCREEN WALL. MIN HEIGHT 8'ABOVE HIGHEST ADJACENT FINISHED GRADE. PAINT BOTH SIDES AND TOP OF WALL. SEE PLANS FOR COLOR SCHEDULE.
140	TRASH ENCLOSURE w/ ROOF COVERING.
143	PAINTED STEEL ROLLING GATE(S). MIN HEIGHT X' ABOVE HIGHEST ADJACENT FINISHED GRADE. PROVIDE KNOX BOX AS REQUIRED BY FIRE AUTHORITY.
146	2 POSITION BIKE RACK.
149	CONCRETE TRUCK RAMP w/ 42" HIGH CONCRETE TILT-UP GUARD ON OPEN SIDE(S). PAINT ALL SIDES OF GUARD WALLS AND HANDRAILS.SEE ARCHITECTURAL DRAWINGS FOR COLOR SCHEDULE.
150	STEEL PIPE BOLLARD PROTECTION POST.
159	MONUMENT SIGN.
169	CONCRETE STAIRS ON GRADE.

SITE LEGEND

- LANDSCAPE AREA
- CONCRETE PAVING
- BUILDING AREA
- 2' OVERHANG — STANDARD PARKING STALL PER CITY REQUIREMENT
- 2' OVERHANG — COMPACT PARKING STALL PER CITY REQUIREMENT
- VANPOOL PARKING STALL MARKING "VANPOOL" PER CITY REQUIREMENT
- TYP. ACCESSIBLE PARKING STALL WITH 8' ACCESS AISLE PER CBC 2019 11B S02.2
- TYP. VAN ACCESSIBLE PARKING STALL WITH 8' ACCESS AISLE PER CBC 2019 11B S02.2
- CLEAN AIR PARKING STALL: PAINT, IN THE PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF STALL STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE.
  CLEAN AIR/ VANPOOL/ EV
  PER CALGREEN 5.106.5.2.1
- ELECTRIC VEHICLE CHARGING STATION: EVCS STALL SHALL PROVIDE SURFACE MARKING STATING
  * EV CHARGING ONLY*
  IN LETTER 12" HIGH MINIMUM. THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF STALL. STRIPING AND IS VISIBLE BENEATH A PARKED VEHICLE
  PER CBC 2019 11B-812.9
  NOTE:FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN SECTION 5.106.5.2 SHALL PROVIDE SURFACE MARKING STATING
  "CLEAN AIR/VANPOOL/EV"
- PATH OF TRAVEL
- PROPERTY LINE

PROJECT INFOMATION

PROJECT INFORMATION	Entitlement	02.22.2022
NET SITE AREA	3.01 AC	131,012 SF
NET FAR		41.5%
MAX FAR		55.0%
ZONE:		BP (BUSINESS PARK)
CONSTRUCTION TYPE:		IIB
SETBACKS(N/S/E/W):		
STREET SETBACK		20'
INTERIOR SETBACK		20'
PARKING SETBACK		10'
TOTAL BUILDING AREA	54,330	SF
FOOTPRINT	53,330	SF
WAREHOUSE	48,330	
OFFICE	5,000	
MEZZANINE	1,000	SF
OFFICE	1,000	
TOTAL PARKING REQUIRED (9' x 19')	73	
*WAREHOUSE@1/1,000	48	
OFFICE@1/250	25	
PARKING PROVIDED (9' x 19')	64	
STANDARD	48	
VAN/HCP	5	
COMPACT	12	
EV STANDARD	4	
EV COMPACT	3	
EV	3	
CLEAN AIR	4	
VANPOOL 1/1,000	3	
NON CONFORMING	0	
BIKE	5 (RACKS)	
LANDSCAPE REQUIRED	10% OF PARKING AREA	13,101 SF
PROVIDED	21.8%	28,595 SF

PROJECT
FIRST PLANNING SUBMITTAL

PATRIOT PARTNERS E 3RD ST & CENTRAL AVE
HIGHLAND, CA

HERDMAN ARCHITECTURE + DESIGN

A21-2204
02.28.2022

SITE PLAN

NORTH

A1

2/22/2022 5:07:13 PM

SOURCE: Herdman Architecture + Design, 2022

DUDEK

NOT TO SCALE

FIGURE 1

Project Site Plan

3rd Street and Central Avenue Warehouse Project

May 10, 2022 - 3:26pm mpopovic P:\300.Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig1-SitePlan

SOURCE: Google Earth 2019

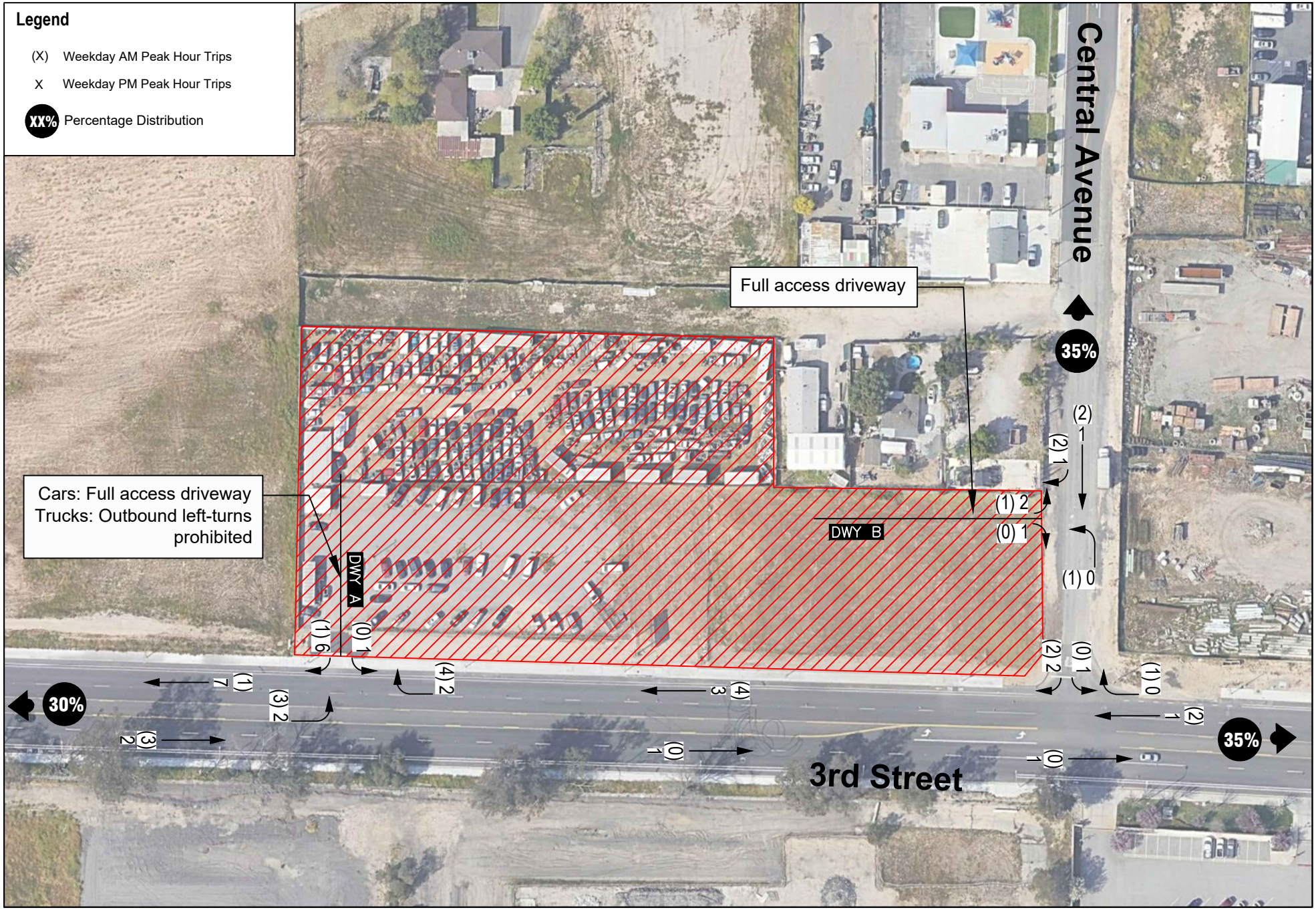
DUDEK

Not to Scale

FIGURE 2

Project Location and Study Area

3rd Street and Central Avenue Warehouse Project



SOURCE: Google Earth 2019

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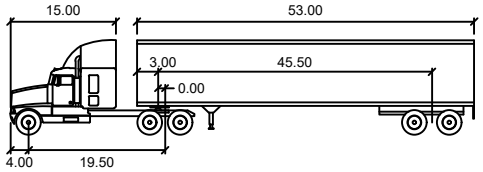
Figure 3

Project Trip Distribution and Assignment - PCE

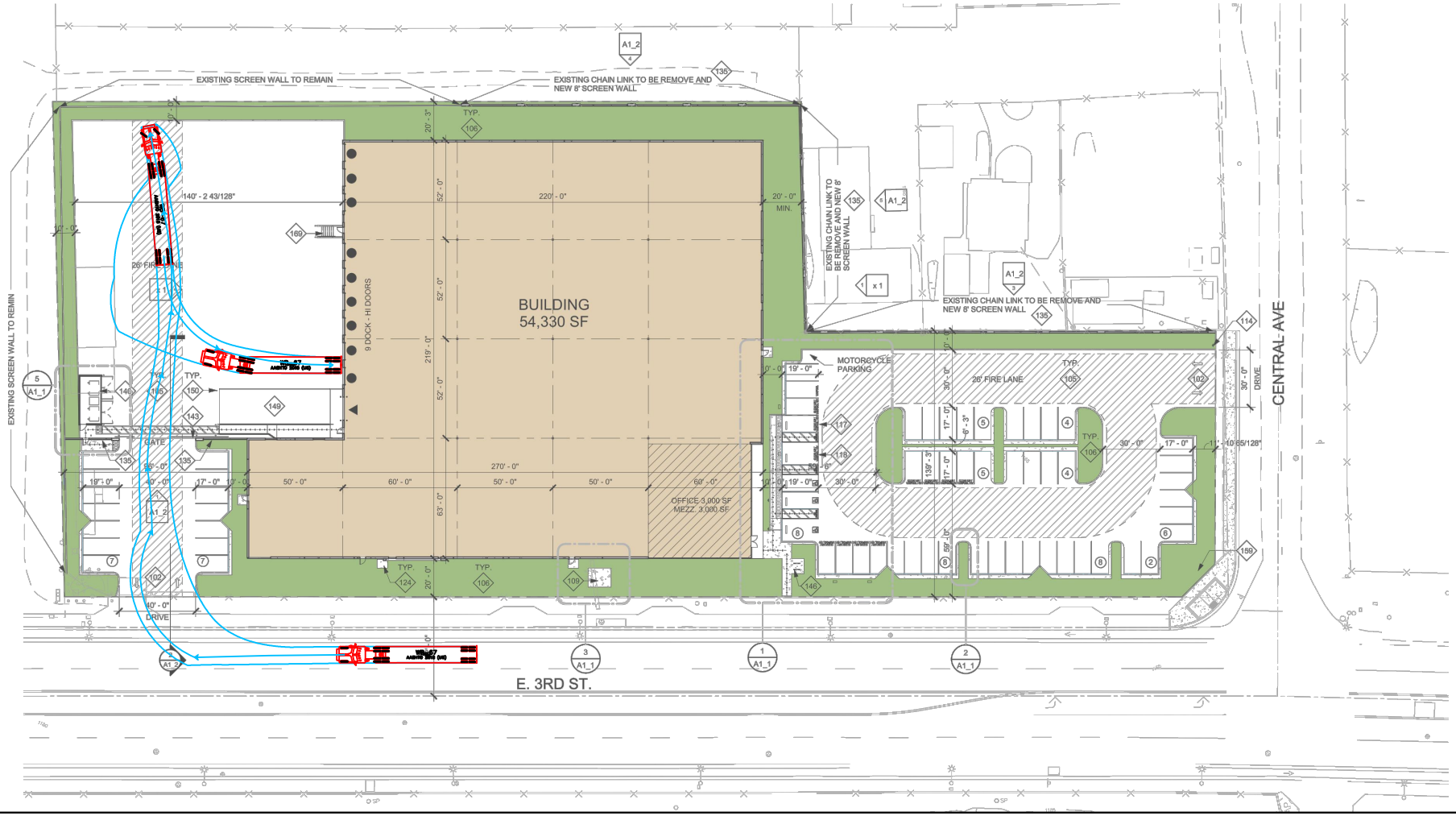
3rd Street and Central Avenue Warehouse Project

May 10, 2022 - 3:53pm mpopovic P:\300.Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig3-PTDA



WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		



SOURCE: Herdman Architecture + Design, 2022; AutoTurn Pro 11

DUDEK

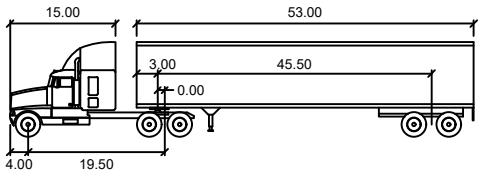
NOT TO SCALE

FIGURE 4

Project Truck Inbound Access - AutoTurn WB-67 Truck

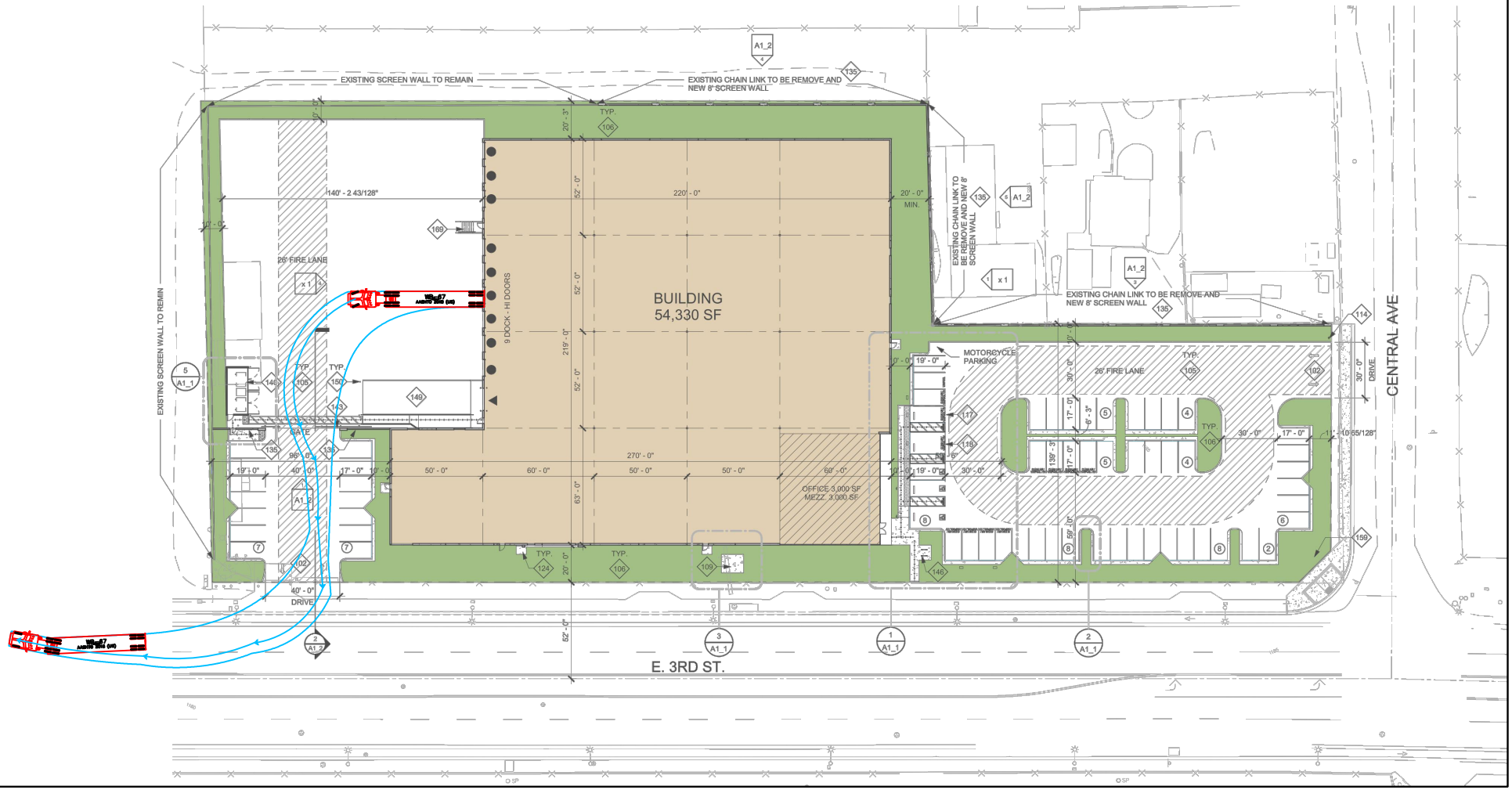
3rd Street and Central Avenue Warehouse Project

May 12, 2022 - 11:28am mpopovic P:\300 Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig4-InbdTrucks



WB-67

	feet		
Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 75.0
Trailer Track	: 8.50		



SOURCE: Herdman Architecture + Design, 2022; AutoTurn Pro 11

FIGURE 5

Project Truck Outbound Exit - AutoTurn WB-67 Truck

3rd Street and Central Avenue Warehouse Project

DUDEK

NOT TO SCALE

May 12, 2022 - 11:28am mpopovic P:\300 Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig5-OutbdTrucks

Attachment A

Traffic Scoping Form

City of San Bernardino Public Works / Traffic Engineering Department

Traffic Scope Approval Form

To be completed by applicant consultant and approved by Public Works prior to start of study

Project Warehouse
Name: Project 3rd Street and Central Avenue Warehouse Project
Address: Project Northwest corner of 3rd Street and Central Avenue
Description: Single industrial/warehouse building approximately 56k sf (inclusive of 6k sf of office/mezzanine)
Developer's Name: Patriot Development Partners
Address: 12126 W. Sunset Boulevard, Los Angeles CA, 90049
Telephone no. 858-952-4132 **Email Address:** kevin@patriotdevelopmentpartners.com

Trip Generation Rates from ITE Latest Edition

Land Use (1)	Warehouse	**Land Use (2)**	
Development Sq Ft	56,184	**Development Sq Ft**	
ITE Land Use Code	150	**ITE Land Use Code**	
Daily Trips	96 (138 PCE)	**Daily Trips**	
AM Peak Hour Trips		**AM Peak Hour Trips**	
Inbound	8 (12 PCE)	**Inbound**	
Outbound	3 (5 PCE)	**Outbound**	
Total	11 (17 PCE)	**Total**	
PM Peak Hour Trips		**PM Peak Hour Trips**	
Inbound	3 (5 PCE)	**Inbound**	
Outbound	8 (12 PCE)	**Outbound**	
Total	11 (17 PCE)	**Total**	

(Use Additional Sheet(s), if necessary)

Pass-by Trips (%), if applicable _____ %

Land Use (1)		**Land Use (2)**	
Development Sq Ft		**Development Sq Ft**	
ITE Land Use Code		**ITE Land Use Code**	
Daily Trips		**Daily Trips**	
AM Peak Hour Trips		**AM Peak Hour Trips**	
Inbound		**Inbound**	
Outbound		**Outbound**	
Total		**Total**	
PM Peak Hour Trips		**PM Peak Hour Trips**	
Inbound		**Inbound**	
Outbound		**Outbound**	
Total		**Total**	

Project Opening Year: _____ **Build-out Year:** _____

Study Intersections:

1	N/A - Project generates <1000 daily	**6**	
2	trips and also <100 peak hour trips	**7**	
3		**8**	
4		**9**	
5		**10**	

(Use Additional Sheet(s) and Maps to show project Boundaries & Attach memo for project Description)

City of San Bernardino Public Works / Traffic Engineering Department

Traffic Scope Approval Form

To be completed by applicant consultant and approved by Public Works prior to start of study

Study Roadway Segments: 1 N/A - Project generates <1000 daily trips and also <100 peak hour trips 2 _____ 3 _____ 6 _____ 7 _____ 8 _____

Proposed Development Use: ☐ Residential ☐ Commercial ☐ Mixed Use ☑ Other

Software methodology: ☐ Synchro ☐ HCS

Additional issues to be considered:

- ☐ Traffic calming measures
- ☐ Queuing Analysis
- ☑ Bike/Ped Accommodations
- ☐ Merge Analysis
- ☐ Gap Analysis
- ☐ Actuation/Coordination
- ☐ Safety Analysis
- ☑ Sight Distance Analysis

Is the project screened from VMT assessment? (Yes) No

VMT Screening Justification: The City of Highland does not have VMTguidelines, however based on previous projects in the city it was directed to use SBCTA's VMT guidelines.

Per SBCTA's guidelines the project will be screened out on the basis of it being considered a "small project" generating fewer than 110 daily (unadjusted PCE) trips.

Ambient Growth Rate: _____%

SEE ATTACHED FOR PROJECT TRIP DISTRIBUTION AND ASSIGNMENT FIGURE

Trip Distribution: East_____% West_____% North_____% South_____%

Consultant Preparer's Name: Dudek, Dennis Pascua, Transportation Services Manager

Address: 605 Third Street, Encinitas, CA 92024

Telephone No. 760-479-4256 **PE /TE License #:** Charles Greely, PE CA No. 69056

Email Address: dpascua@dudek.com

Signatures: _____ **Date:** 03/11/2022

Approved By (Public Works Department):

Signatures: _____ **Date:** _____

Name: _____ **Title:** _____

Table 1 - Trip Generation Estimates

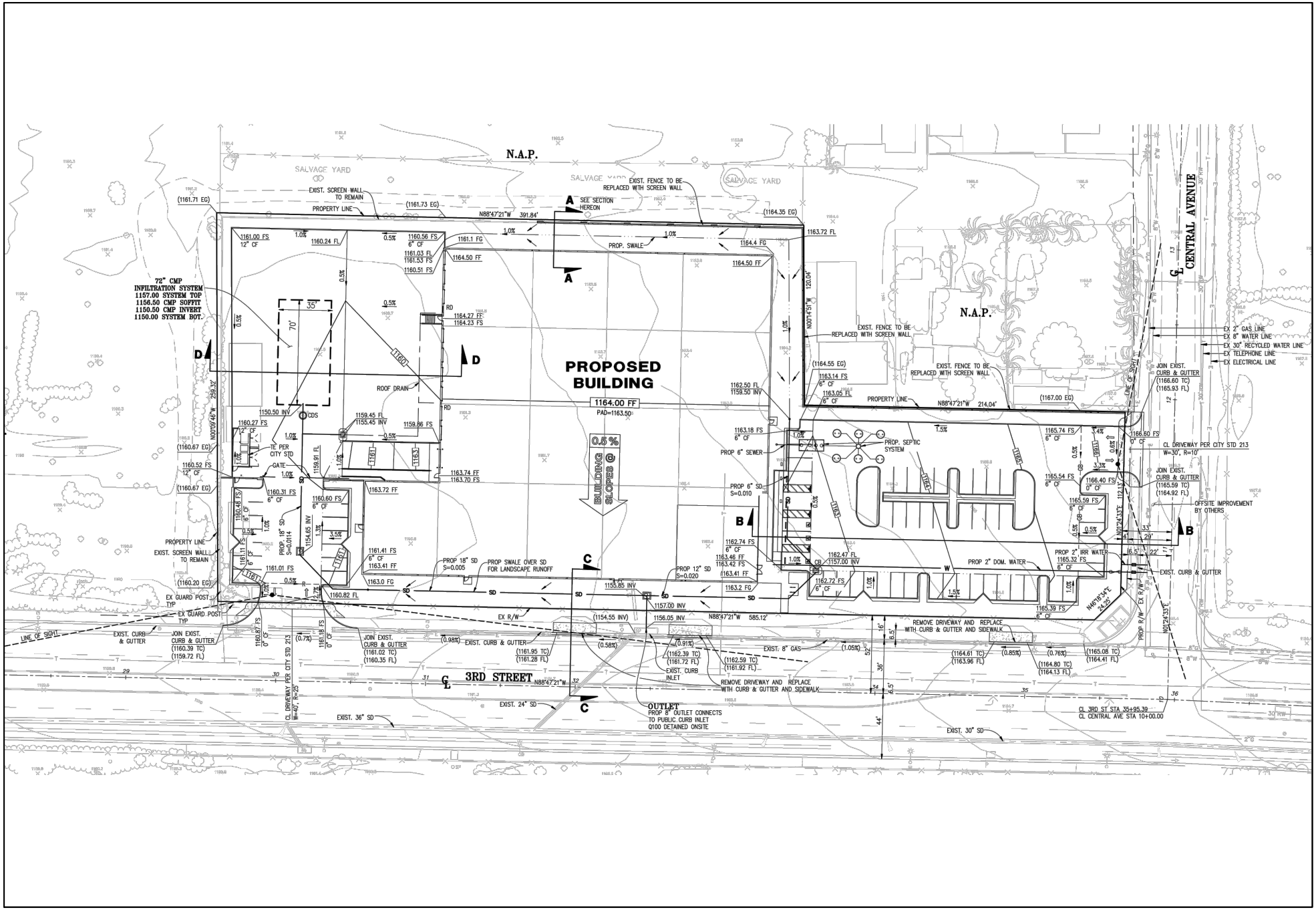
Land Use	ITE Code	Size/Units	Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
TRIP RATES									
Warehousing	150	TSF	1.71	0.13	0.04	0.17	0.05	0.13	0.18
TRIP GENERATION									
3rd and Central Warehouse	150	56.184 TSF	96	8	3	11	3	8	11
TRIP GENERATION (by Vehicle Classification)									
Vehicle Mix[2]		**Percent[2]**							
Passenger Vehicles		72.5%	70	5	2	7	2	5	7
2-Axle Trucks		4.6%	4	1	0	1	0	1	1
3-Axle Trucks		5.7%	5	1	0	1	0	1	1
4+-Axle Trucks		17.2%	17	1	1	2	1	1	2
		Warehousing Subtotal (Non-PCE)	96	8	3	11	3	8	11
		PCE Factor[3]							
Passenger Vehicles		1.0	70	5	2	7	2	5	7
2-Axle Trucks		1.5	7	2	0	2	0	2	2
3-Axle Trucks		2.0	10	2	0	2	0	2	2
4+-Axle Trucks		3.0	51	3	3	6	3	3	6
		Total Trip Generation (w/PCE)	**138**	**12**	**5**	**17**	**5**	**12**	**17**

Notes: TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

[1] Trip rates from the Institute of Transportation Engineers (ITE), *Trip Generation, 11th Edition, 2021.*

[2] Vehicle Mix and Percent from SCAQMD, Warehouse Truck Trip Study Data Results and Usage, July 2014.

[3] Passenger Car Equivalent (PCE) factors per the San Bernardino County CMP, 2016.



SOURCE: Huitt-Zollars, Inc. 2022

DUDEK

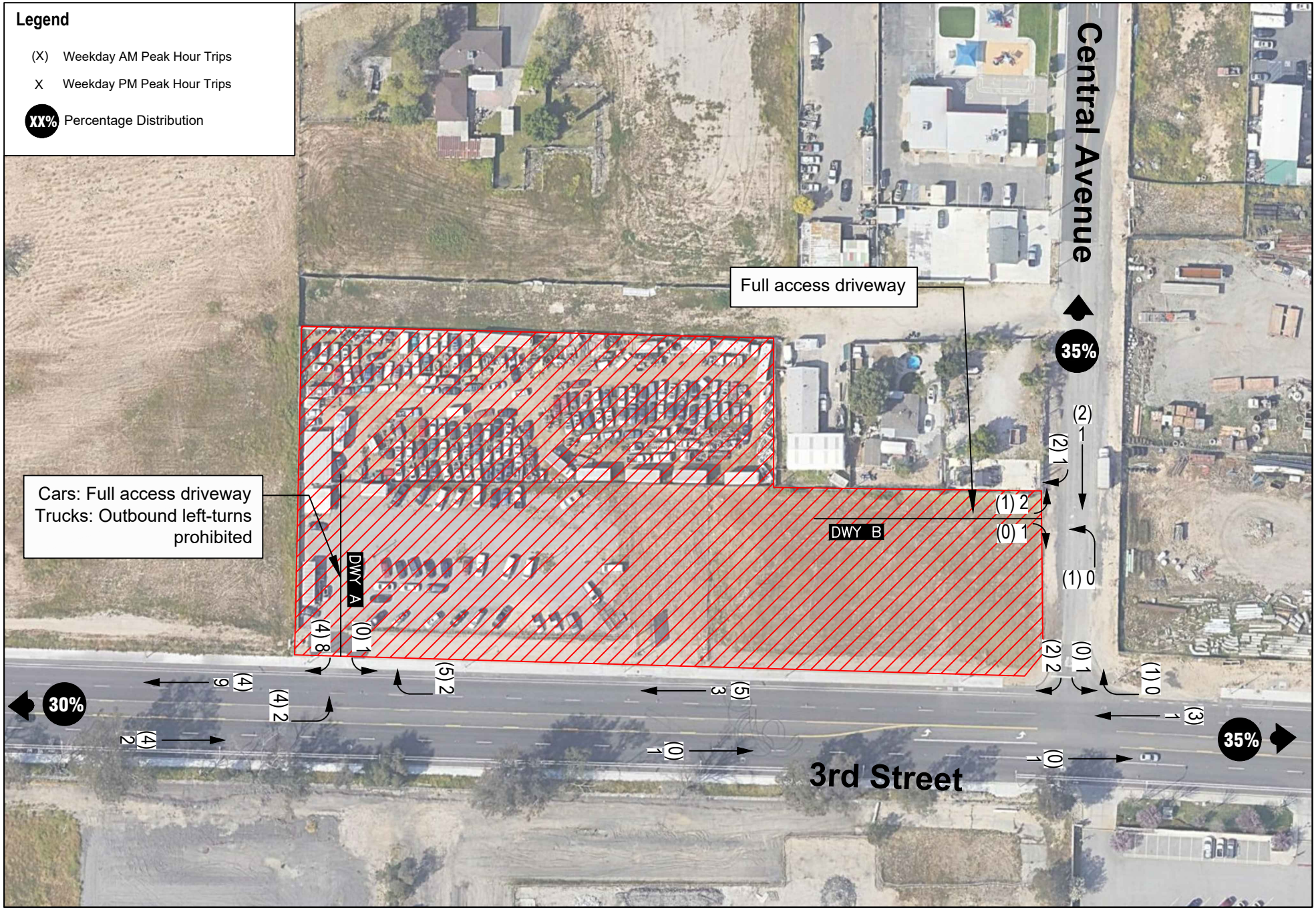
NOT TO SCALE

FIGURE 1

Project Site Plan

3rd Street and Central Avenue Warehouse Project

Mar 11, 2022 - 5:29pm mpopovic P:\300 Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig1-SitePlan



SOURCE: Google Earth 2019

DUDEK

Not to Scale

Figure 2

Project Trip Distribution and Assignment - PCE

3rd Street and Central Avenue Warehouse Project

Mar 11, 2022 - 6:32pm mpopovic P:\300 Environmental\13893 Patriot 3rd and Central Warehouse Highland\Dudek Work Products\Documents\Transportation\Graphics\AutoCAD Files\3rdCentral2.dwg Layout: Fig2-PTDA

Attachment B

The Landing by San Manuel TIA Information

The Landing by San Manuel

TRAFFIC ANALYSIS

CITY OF SAN BERNARDINO

PREPARED BY:

Aric Evatt, PTP
aevatt@urbanxroads.com

Charlene So, PE
cso@urbanxroads.com

Robert Vu, PE
rvu@urbanxroads.com

NOVEMBER 4, 2020

Table 1-3

Summary of Deficiencies and Recommended Improvements

#	Intersection Location	Jurisdiction	EAP (2022)	EAPC (2022)	Horizon Year (2040) With Project	Improvements in DIF Fee Program?[1]	Total Cost[2]	Fair Share %[3]	Fair Share Cost[4]
1	Lankershim Av. & 5th St.	City of San Bernardino, Highland	None	- Install a traffic signal	- Same	No	$600,000	4.1%	$24,379
						Total	**$600,000**		**$24,379**
3	Victoria Av. & 3rd St.	City of San Bernardino, Highland	None	None	- Add 2nd EB left turn lane	No	$78,400	12.1%	$9,448
						Total	**$78,400**		**$9,448**
11	Central Av. & 3rd St.	City of San Bernardino, Highland	None	None	- Install a traffic signal	No	$600,000	8.9%	$53,289
						Total	**$600,000**		**$53,289**
12	Palm Av. & 5th St.	City of Highland	None	None	- Add 3rd EB through lane	No	$282,240	11.3%	$31,890
					- Add 3rd WB through lane		$282,240		$31,890
						Total	**$564,480**		**$63,780**
15	I-210 SB Ramps & 5th St./ Greenspot Rd.	Caltrans, City of Highland	- Add 2nd EB right turn lane	- Same	- Same	No	$78,400	7.1%	$5,591
					- Add SB left turn lane		$78,400		$5,591
						Total	**$156,800**		**$11,182**
						Total Costs for Horizon Year (2040) Improvements	**$1,999,680**		**$162,078**
						Total Project Fair Share Contribution to the City of San Bernardino (non-DIF)[5]	**$43,558**		
						Total Project Fair Share Contribution to the City of San Bernardino for Impacts to City of Highland Facilities (non-DIF)[6]	**$112,929**		
						Total Project Fair Share Contribution to the City of San Bernardino for Impacts to Caltrans Facilites[7]	**$5,591**		

[1] Improvements included in City of San Bernardino DIF program for local and regional components.

[2] Source: San Bernardino County CMP, 2003 Update; Preliminary Construction Cost Estimates for Congestion Management Plan in conjunction with a cost escalation factor of 1.568 to reflect 2020 conditions.

[3] Program improvements constructed by project may be eligible for fee credit, at discretion of City. See Table 8-1 for Fair Share Calculations.

[4] Rough order of magnitude cost estimate.

[5] Total project fair share contribution consists of the improvements which are not already included in the City of San Bernardino's DIF for those intersections wholly or partially within the City of San Bernardino.

[6] Total project fair share contribution consists of the improvements for those intersections wholly or partially within the City of Highland.

[7] Total project fair share contribution consists of the improvements for those intersections wholly or partially within the jurisdiction of Caltrans.

8.2 MEASURE "I"

In 2004, the voters of San Bernardino County approved the 30-year extension of Measure "I", a one-half of one percent sales tax on retail transactions, through the year 2040, for transportation projects including, but not limited to, infrastructure improvements, commuter rail, public transit, and other identified improvements. The Measure "I" extension requires that a regional traffic impact fee be created to ensure development is paying its fair share. A regional Nexus study was prepared by the SBCTA and concluded that each jurisdiction should include a regional fee component in their local programs in order to meet the Measure "I" requirement. The regional component assigns specific facilities and cost sharing formulas to each jurisdiction and was most recently updated in March 2019. (12) Revenues collected through these programs are used in tandem with the City's DIF funds to deliver projects identified in the Nexus Study. While Measure "I" is a self-executing sales tax administered by SBCTA, it bears discussion here because the funds raised through Measure "I" have funded in the past and will continue to fund new transportation facilities in San Bernardino County.

8.3 FAIR SHARE CONTRIBUTION

Project mitigation may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City's discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each peak hour, has been provided in Table 8-1 for the deficient intersections shown previously in Table 1-3. The fair-share calculations indicate that the Project contributes between 2.3% and 12.1% of new vehicle trips to the cumulatively impacted intersections throughout the study area.

Improvements included in a defined program and constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate. A rough order of magnitude cost has been prepared to determine the appropriate contribution value based upon the project's fair share of traffic as part of the project approval process. Table 1-3 also summarize the applicable cost associated with each of the recommended improvements based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a cost escalation factor of 1.586 to reflect current (2020) costs. The total cost of needed study area intersection improvements is $1,999,680. Based on the Project fair share percentages shown in Table 8-1, the Project's fair share cost is estimated at $162,078. These estimates are a rough order of magnitude only as they are intended only for discussion purposes and do not imply any legal responsibility or formula for contributions or mitigation.

Table 8-1

Project Fair Share Calculations

#	Intersection		Existing	Project	2040 With Project Volume	Net New Traffic	Project % of New Traffic
1	Lankershim Av. & 5th St.						
		AM:	458	18	901	443	**4.1%**
		PM:	731	22	1,680	949	2.3%
3	Victoria Av. & 3rd St.						
		AM:	1,377	151	2,630	1,253	**12.1%**
		PM:	1,836	168	3,232	1,396	12.0%
11	Central Av. & 3rd St.						
		AM:	673	40	1,415	742	5.4%
		PM:	1,254	81	2,166	912	**8.9%**
12	Palm Av. & 5th St.						
		AM:	2,657	107	3,604	947	**11.3%**
		PM:	3,221	100	4,183	962	10.4%
15	I-210 SB Ramps & 5th St./ Greenspot Rd.						
		AM:	2,854	109	4,522	1,668	6.5%
		PM:	2,800	131	4,637	1,837	**7.1%**

BOLD = Denotes highest fair share percentage.