

Appendix A

Project Description
Supporting Information

Appendix A – Project Description Supporting Information

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PROJECT EXECUTION PLAN

PROPOSED CARSON TO PARAMOUNT HYDROGEN GAS PIPELINE PROJECT LOS ANGELES COUNTY, CALIFORNIA

Project No. 1802-2611

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LIST OF ACRONYMS

ACOE	U.S. Army Corps of Engineers
Air Products	Air Products and Chemicals, Inc.
amsl	above mean sea level
API	American Petroleum Institute
ARB	California Air Resources Board
ASV	Automatic shut-off valve
BMP	Best Management Practices
CAAQS	California Ambient Air Quality Standards
CDFW	California Department of Fish and Wildlife
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
CHRIS	California Historical Resources Information System
CFR	Code of Federal Regulations
CMMP	Contaminated Materials Management Plan
CNDDB	California Natural Diversity Database
CNEL	Community Noise Level Equivalent
CNPS	California Native Plant Society
CO	Carbon Monoxide
CP	Cathodic protection
CRHR	California Register of Historical Resources
CWA	Clean Water Act
dB	Decibels
DNL	Day-Night Average Level
DPR	Department of Parks and Recreation
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
FBE	Fusion bonded epoxy
FESA	Federal Endangered Species Act
H ₂ S	Hydrogen Sulfide

HCA	High Consequence Areas
HDD	Horizontal directional drilling
HLPSA	Hazardous Liquid Pipeline Safety Act
HLRC	Historical Landmarks and Records Commission
ICCP	Impressed current cathodic protection
km	kilometers
L.A.	Los Angeles
lbs/day	Pounds per day
Ldn	Day-Night Average Level
LNG	Liquefied natural gas
LORS	Laws, ordinances, and regulations
LOS	Level of Service
LSAA	Lake or Streambed Alteration Agreement
MAOP	Maximum Allowable Operating Pressure
MBTA	Migratory Bird Treaty Act
MMSCFD	Million standard cubic feet of gas per day
MT/yr CO ₂ eq	Metric tons per year of CO ₂ equivalents
NAAQS	National Ambient Air Quality Standards
NGPSA	Natural Gas Pipeline Safety Act
NO ₂	Nitrogen Dioxide
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
O ₃	Ozone
OHWM	Ordinary High Water Mark
OPS	Office of Pipeline Safety
PHMSA	Pipeline and Hazardous Materials Safety Administration
PLC	Programmable Logic Controller
Pb	Lead
PM _{2.5}	Fine Particulate Matter
PM ₁₀	Respirable Particulate Matter

ppb	Parts per billion
ppm	Parts per million
PPC	Paramount Pipeline Company
PRC	Public Resources Code
psig	Pounds per square inch
QRA	Quantitative Risk Assessment
RTU	Remote terminal unit
RWQCB	Regional Water Quality Control Board
SCADA	Supervisory Control and Data Acquisition
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coast Information Center
SEL	Sound Exposure Levels
SMYS	Specified Minimum Yield Strength
SO ₂	Sulfur Dioxide
SO ₄ ²⁻	Sulfates
SWPPP	Storm Water Pollution Prevention Plan
TAC	Toxic Air Contaminants
µg/m ³	Microgram per cubic meter
UPS	Uninterruptible power supply
USA	Underground Service Alert
USC	United States Code
USDOT	U.S. Department of Transportation
USFWS	United States Fish and Wildlife Service

1.0 INTRODUCTION AND PROJECT OVERVIEW

The Carson to Paramount Hydrogen Pipeline Project (Project) will be constructed and operated by Air Products and Chemicals, Inc. (Air Products). The proposed pipeline will extend from Air Products' existing hydrogen facility in the City of Carson to the World Energy Bio-Fuels Facility in the City of Paramount, California. Existing pipeline segments to be utilized as part of this Project are owned by Paramount Pipeline Company, LLC (PPC), a subsidiary of World Energy.

1.1 APPLICANT INFORMATION

1.1.1 Applicant

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1.1.2 Pipeline Owner

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1.1.3 Environmental Consultant

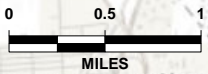
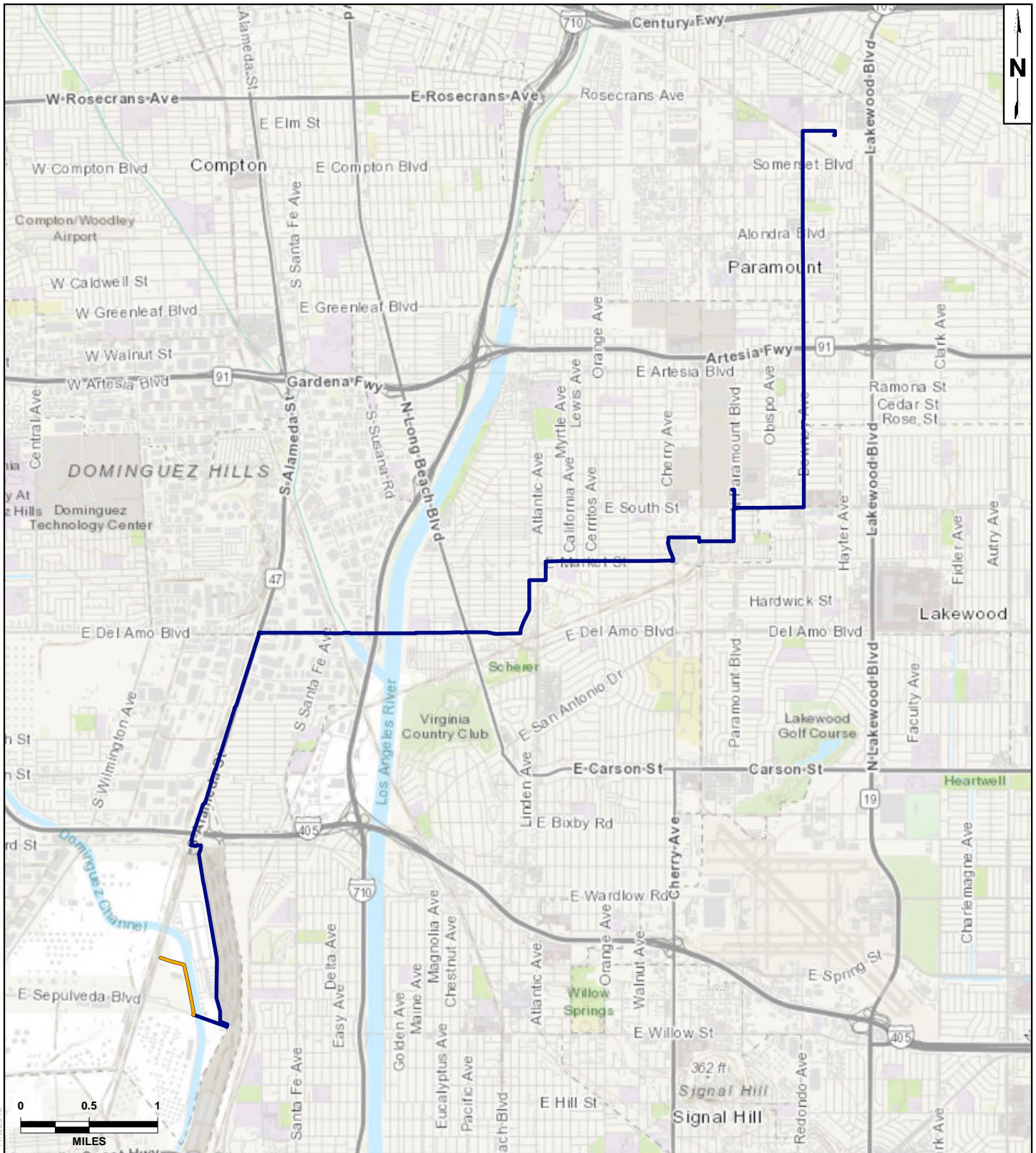
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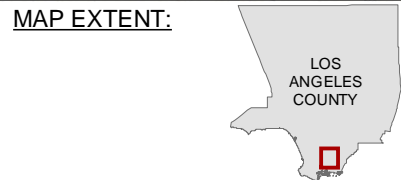
1.2 PROJECT OVERVIEW

Approximately 0.5 miles of new pipeline will be constructed as part of the Project within the City of Carson. Air Products proposes to utilize existing pipeline(s) owned by PPC for the remainder of the approximately 11.5-mile pipeline route. One new pipe connection would be required to connect segments of existing pipelines together. Air Products would also remove approximately ten existing manual valves, install one manual valve, and add one automatic shut-off valve (ASV) at locations along the pipeline route.

The Project route will initiate in the City of Carson and terminate in the City of Paramount. The Project route will traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower. Refer to Figure 1-1 for the Project Location.



LEGEND:
— New Pipeline Segment — Existing Pipeline to be Utilized



Source: Esri Online Basemap, DOGGR
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

 padre associates, inc. ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS	PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA		<h1 style="margin: 0;">SITE LOCATION MAP</h1>	FIGURE 1-1
	PROJECT NUMBER: 1802-2611	DATE: November 2018		

1.3 PERMITTING REQUIREMENTS

The City of Carson is anticipated to be the lead agency for the Project due to the need for a Conditional Use Permit for the construction and operation of the proposed pipeline. The section of new pipeline lies entirely within the City of Carson. Table 1.3-1 presents the anticipated permits and approvals required for construction and operation of the proposed Project.

Table 1.3-1. List of Anticipated Permits and Approvals

Agency	Permit/Approval	Regulated Activity	Authority
State of California Agencies			
Regional Water Quality Control Board	Storm Water Pollution Prevention Plan Approval	Storm water discharges during Project construction	Clean Water Act Porter-Cologne Water Quality Act
Local Agencies			
City of Carson	Conditional Use Permit, Construction Permit	New use, environmental review, and construction permit	City Code CEQA
City of Carson Public Works Dept.	Encroachment Permit	Work within public right-of-way	City Code
Los Angeles County Flood Control District	Temporary Use and Access	Modifications to existing pipe bridge crossing the Los Angeles River	County Code
Port of Los Angeles	Amendment to Franchise Agreement	Change in pipeline use	City Code
Joint Ports	Amendment to Master Joint Revocable Permit	Change in pipeline use	Joint Powers Authority Charter
City of Long Beach	Amendment to Franchise Agreement/ Construction Permit/ Encroachment Permit	Modification to existing Franchise Agreement, Work within public rights-of-way	City Code
City of Lakewood	Construction Permit	Piping Modification	City Code
City of Paramount	Construction Permit	Pipeline Tie-In	City Code
South Coast Air Quality Management District	Authority to Construct/Permit to Operate	Emissions associated with construction may require permits.	Clean Air Act
Notes: CEQA = California Environmental Quality Act			

2.0 PROJECT DESCRIPTION

2.1 PROJECT DESIGN

Air Products proposes to construct a new 0.5 mile pipeline segment to connect to 11.5 miles of existing pipeline for the transportation of hydrogen gas to the World Energy Bio-fuels Facility. World Energy uses hydrogen to produce renewable bio-fuels (diesel and jet) for the transportation market. The existing pipeline crosses the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount as well as an unincorporated part of County of Los Angeles and land owned or controlled by the Port of Los Angeles and the Joint Ports Authority.

Air Products would connect two segments of existing pipelines as well as add and replace existing valves along the route. Two new actuated valves will be installed within the Carson Site and the supply side at the World Energy Facility. Ten manual valves would be removed and replaced by welded piping. One ASV would be installed at the Dominguez pumping station and a manual valve would be installed at the existing valve box located along South Street near Orizaba Avenue in Lakewood. Existing pipe bridges would be utilized to cross the Dominguez Channel, Compton Creek, and the Los Angeles River. The new pipeline segment within Carson would be installed using trenching and/or horizontal boring techniques. The pipeline would operate at a pressure of 260 pounds per square inch gauge (psig) but will be designed for a Maximum Allowable Operating Pressure (MAOP) of 300 psig. The pipeline would replace liquid hydrogen brought in by truck (approximately 4-5 trucks per day) that is currently utilized at the World Energy Bio-fuels Facility as part of the bio-fuel refinement process.

The proposed route primarily extends within established utility routes utilizing private corridors and public roadways. The pipeline route is shown on Figures 2-1 through 2-10. The pipeline route would be comprised of the following segments from southwest to northeast and origin to final destination. The majority of the route utilizes existing pipeline owned by PPC. Refer to Appendix A for selected site photographs taken along the pipeline route. Table 2.1-1 provides a summary of the pipeline information by segment.

- Segment 1 - One-half mile of new pipe will be constructed underground from the Air Products Hydrogen Plant to join with PPC Line 3B on Sepulveda Boulevard. Limited construction within the roadway would occur using either trenching or horizontal boring techniques. The new pipe segment would connect to existing pipe owned by PPC on the west side of the Dominguez Channel. PPC existing pipe crosses the Dominguez channel using an existing pipe bridge on the south side of Sepulveda Boulevard.
- Segment 2 - The existing PPC Line 4 will be utilized along the existing Union Pacific Railroad. There are no roadways within this industrial area located within the City of Los Angeles.
- Segment 3 - Segment 3 would begin under 223rd street to continue northbound on Alameda Street (Highway 47). This existing pipeline is PPC Line 4, located on the western side of Alameda street. An ASV will be installed at the Dominguez pumping station. The surrounding area east of the pipeline is Lincoln Village, an area of single-family residences.

- Segment 4 – PPC Line 4 extends on Alameda Street before turning east onto East Del Amo Boulevard. There is a residential area to the east of this segment but also includes industrial land uses.
- Segment 5 - PPC Line 4, Segment 5 crosses from the City of Carson to an unincorporated part of Los Angeles County on East Del Amo Boulevard. The surrounding area is industrial and crosses over the Los Angeles River and under the 710 Freeway. The second half of the segment passes through a residential area, bordering Sutter and Adams.
- Segment 6 - Segment 6 extends through a residential area along Linden Avenue and then turns east to follow East Market Street. This occurs in a mixed-use area with a residential, commercial, and industrial area. The pipeline would utilize the existing PPC Line 4.
- Segment 7 - The pipeline crosses through an industrial part of the City of Long Beach. There would be street level construction located on an alleyway on North Paramount Boulevard, North of South Street. The pipeline will tie into PPC Line 12 Crude 1150. A manual valve will be replaced at an existing vault on South Street near Orizaba Avenue and would tie into PPC Line 12 crude 244. The adjacent area includes commercial and industrial uses. The pipeline extends on South Street within a residential and commercial area and turns North on Downey Avenue.
- Segment 8 - PPC Line 12 Crude 244, Segment 2 extends along Downey Avenue and crosses over the border into the City of Bellflower, which borders Long Beach. This section would border a residential area.
- Segment 9 - This segment crosses from the City of Bellflower into the City of Paramount along Downey Avenue. There are residential and commercial areas within this segment of the pipeline route
- Segment 10 - The final segment of the pipeline extends along residential and commercial areas on Downey Avenue. After crossing Pacific Electric Drive, the pipeline turns east on an unnamed road to tie-in at the World Energy bio-fuels Facility.

Table 2.1-1. Pipeline Information

Location Description	Pipe Size (Diameter in Inches)	Wall Thickness (Inches)	Pipe Grade
APCI Carson Facility Site to Sepulveda Blvd (new segment)	8	0.322	API 5L X52
Line 3B from Sepulveda Blvd to Intermodal Terminal	6/8	0.25	Varies
Line 4 from Intermodal Terminal to N. Paramount Blvd/South Street	6/8	0.188-0.25/0.25	Some API 5L X42
Line 1150 - N. Paramount Blvd to South Street Vault	12	0.33	Varies
Line 244 South Street Vault to World Energy (Paramount) Facility	12	0.33	Varies

2.2 CONSTRUCTION PROCEDURES

The proposed construction would begin as soon as practical after all required permits have been issued, estimated to be early 2020 depending on permit issuance. Approximately five months would be required to complete the construction effort.

There will be two active construction areas, from the Air Products Carson Facility to Sepulveda Boulevard to construct 0.5 miles of new pipeline to connect to existing pipeline, and on Paramount Boulevard in Long Beach to connect two existing PPC pipelines. The majority of pipeline construction within Carson would occur on private land. Refer to Table 2.2-1 for a summary of the construction activity durations and manpower requirements.

Table 2.2-1. Anticipated Construction Personnel

Spread Type	Location	Personnel	Timing
Pipeline Spread	Pipeline Construction and Carson Tie-In	20-40 people	20 weeks
ASV Sites and Pipeline Connections	Dominguez Station, South Street	5-10 people	8 weeks
Station Crew	Paramount Facility Connection	5-10 people	8 weeks

2.2.1 Staging Areas

During Project construction, staging areas would likely be established for the storage of materials and equipment at the proposed construction sites (Carson Facility and Paramount Facility). Temporary office trailers may be placed at each of these sites, which would require temporary power. Materials would be stored at existing off-site contractor facilities where feasible.

The pipe material and equipment would be strung along the pipeline right-of-way in addition to the staging areas. Delivery to the job site would occur close to the construction start date.

Lowboy trucks and trailers would most likely be used to deliver heavy construction equipment to the Project site. Mobile equipment, such as mobile cranes and dump trucks, would be driven in from local contractors' yards when feasible. Overnight storage of construction equipment would either be at the site or nearby storage yards. The Contractor or local services companies would be responsible for lubrication, refueling, and repair of equipment in the staging areas or along the pipeline right-of-way.

The delivery of construction materials would be made by trucks using existing roadways (paved and unpaved). Materials to be transported would include:

- Externally coated pipe sections (40 feet long)
- Miscellaneous pipe and fittings
- Valves
- Meters and associated measurement equipment
- Electrical and control equipment
- Reinforcing steel and concrete
- Aggregate base rock, gravel, sand, and slurry (from local plants) for backfill and road-base
- Asphalt for paving
- Line signs
- Fencing
- Water for dust control
- Water for hydrostatic testing

2.2.2 Construction Wastes

Construction waste would generally include:

- Short sections of line pipe
- Wastes from radiography, welding, and pipe coating
- Boxes and crates used for material shipments
- Potentially impacted spoils

- Rubble from trenching in paved areas
- Water used to hydrostatically test the completed pipeline

Wastes would be sorted based on metallics and non-metallics. Metallics would be hauled to a local recycling center and non-metallics would be hauled to the nearest waste disposal center. Non-hazardous wastes would be hauled to a sanitary landfill. In accordance with all applicable laws, ordinances, and regulations (LORS), hazardous wastes would be sent to a permitted treatment or disposal facility. Used hydrostatic test water would be sent to the World Energy Facility for treatment or discharge, or alternatively discharged onsite, in accordance with applicable LORS. There would be trash containers provided at each staging area.

Construction crews would use portable chemical toilets. There is no gaseous waste created by the construction and operation of the proposed pipeline.

2.2.3 Utility and Service Requirements

Diesel and gasoline fuel would be required for construction equipment including welding machines. Engines would be regularly maintained, and all equipment would be fitted with appropriate mufflers.

Water would be used for fugitive dust control and street washing, as a supplement to sweeping. The hydrostatic testing of the pipeline would also require water in addition to day to day construction needs. All water for Project needs would be purchased from the local water authority and obtained via hydrant.

2.2.4 Construction Methods

The following section describes each of the steps involved with the construction of the pipeline segment.

2.2.4.1 Mobilization

Mobilization activities include the installation of temporary construction trailers and security fencing, material deliveries, and equipment deliveries to the Project site. Trucks and trailers would be used for mobilization activities.

The Contractor would notify Underground Service Alert (USA) who would provide notification to any service providers that could be impacted. The intent is to prevent damage to utilities and disruption in service to customers.

2.2.4.2 Roadway Construction

Portions of the pipeline construction would occur within existing road rights-of-way in two locations along the pipeline. Permits from the agency with jurisdiction over the streets would be obtained. Traffic control would be provided in accordance with the Federal Highway Administration's Manual on Uniform Traffic Control Devices.

Landowners, permittees, and business owners along the right-of-way would be notified prior to the beginning of construction about construction activities that could affect their business or operations. Notification would be provided by mail and telephone. Tenants would be notified in person prior to construction activities. Other notification would include the placement of signs around the Project site prior to construction.

Emergency response providers around proposed construction sites would be given advanced notices of construction locations, road closures, and possible alternate routes. Schedules for necessary street parking closures would be published in advance of closure. Signage would be provided to direct traffic to detours. Ample notice would be given to affected parties in order for them to plan alternate transportation routes.

No horizontal directional drilling (HDD) drilling would be required. The proposed method for pipeline construction would be trenching to install the new section of pipeline.

2.2.4.3 Equipment Fueling

Construction equipment refueling would take place along the right-of-way and would include the use of absorbent material to contain any over-filling. This material would also be available for emergency containment scenarios.

2.2.4.4 Right-of-Way Clearing

Minimal clearing activities are anticipated for the proposed Project. There is no vegetation present at either construction site along the route due to the developed nature of the area. There would be a cleared area along the pipe construction site which is barren and would require minimal grading. Any clearing that would occur would be minimized in area.

For landowner security, existing fences crossing the right-of-way would be braced, cut, and fitted with gates. The openings would be controlled during construction. Pre-existing fences would be replaced and braces kept in place after construction.

2.2.4.5 Ditching

Typical ditches would be excavated using rubber-tired backhoes, ditching machines, and track backhoes and would be between five and six feet deep and three feet in width. Hand digging using “air-knife” and shovels would be used in the vicinity of substructures. Ditch spoils and contaminated soil suitable for backfilling at the site of origin will be used as such. Unsuitable materials would be disposed of offsite, in accordance with all applicable LORS. Water trucks equipped with spray nozzles would be used for fugitive dust control.

2.2.4.6 Hauling and Stringing the Line Pipe

Line pipe will be transported to the pipeline right-of-way via trucks and trailers. If space allows, trucks would carry the line pipe along the right-of-way and side-boom tractors would unload the joints of pipe and place the pipe along the ditch line for eventual line-up and welding.

2.2.4.7 Pipe Bending, Fit-Up, and Welding

A portable bending machine would be used in order to bend externally coated line pipe to fit the contours of the ditch. Prefabricated “shop” bends may be used in some sharp transition circumstances.

The pipe joints would be fitted together using either external or internal lineup clamps. The clamps are used in order to hold the ends of each pipe joint in position until 50 percent or more of the first welding pass is complete.

After fitting, the welding crew would apply remaining weld passes. Qualified welders would perform all field welding in accordance with Air Products specifications, American

Petroleum Institute (API) Standard 1104 (Welding Pipe Lines and Related Facilities), and the Code of Federal Regulations (CFR) Title 49, Part 192. A minimum of one 20-pound dry chemical unit fire extinguisher would be included in each welding truck as a safety measure.

2.2.4.8 Weld Inspection

100% X-ray inspection will be performed on all welds during construction to confirm the integrity of all welds. Hydrotesting will be done to confirm the condition of the pipeline. Air Products will eliminate approximately ten valves along the existing the pipeline system. These valves will be replaced by welded pipe sections. The tests are designed to ensure that the pipe, fittings, and weld sections would maintain mechanical integrity without leakage or failure under normal operational pressures and pressures significantly higher than normal.

2.2.4.9 Circumferential Pipe Weld Joint Coating

Before delivery to the Project site, the new pipe would receive an external coat of fusion bonded epoxy (FBE) at the coating or pipe mill. The new pipeline segments will be 14 to 16 mils FBE coated. The purpose of these coatings is to protect the pipeline during operational corrosion. Existing portions of the pipeline are coated with Somastic, cold tar, and Orange X-TRUCOAT.

An inspection of the length of the new pipe would be conducted to ensure integrity of the coating. A testing device known as a holiday detector would be used to locate any discontinuities in the coating by developing an electrical potential between the pipe and the electrode in contact with the outside coating. This is to ensure that no moisture or electrical current would be able to reach the pipe. This process would take place over the length of the pipe prior to backfilling.

2.2.4.10 Line Lowering

Side-boom tractors would be used to lift and lower the pipe into the ditch, with the assistance of cradles with rubber rollers or padded slings to avoid damage to the external coating. The side booms would be spaced so that there would be no mechanical damage from the weight of unsupported pipe.

“Bell holes” would be dug at pipe joints to facilitate welding and joint coating access. These welds would occur after the pipe sat at its final elevation and alignment.

2.2.4.11 Backfilling and Compaction

In situations in which the native material is suitable for backfilling, it would be reused. Suitable material would have rounded rocks no greater than 0.75 inch in size in order to avoid damage to the pipe coating. If native material contained larger rocks, it could be either replaced with sand or other material or filtered through a standard screen for use. This type of material is necessary for padding and shading of the pipe which would fill to 12 inches above the pipe. Remaining material would then be placed on top, including unsuitable native material if it was not screened if it is appropriate for compaction.

Criteria for material suitability is dependent on the particular area’s compaction requirements. Some uses, such as paved roadways, require material with greater structural integrity for greater compaction. Use of the proper backfill material, backfilling in lifts (approximately 12 to 18 inches at a time), use of compaction rollers and/or hydraulic tampers, use

of sand cement slurry, and compaction testing would ensure that all trench locations are compacted in accordance with good engineering practices and local permit requirements.

As a safety precaution in areas with unrestricted access, trenches would be fenced, backfilled, or covered with steel plates at the end of each work day. Normal depth of cover for pipelines is three feet (36 inch) from grade to the top of the pipe.

2.2.4.12 Hydrotesting

A hydrotest test would be performed after construction and before startup of the entire pipeline. Federal regulations (49 CFR Part 192) mandate hydrotesting of new gas pipelines before placing the line into operation. The pipeline will be tested at a pressure of 150% MAOP or 450 psig. The maximum operating pressure for which the pipeline would be designed is 300 psig.

Permanent records for each hydrostatic test would be kept and would contain data including the location of each test segment, elevation profile, and description of the facility, and continuous pressure and temperature data throughout the test. Deadweight testers would be used to verify the accuracy of pressure-recording devices and charts during the test, as required by 49 CFR 192. Historical data for the existing pipeline segments is shown by Table 2.2-2.

Table 2.2-2. Historical Hydrotesting

CSFM #	Line Number	Line size (")	Test Date	Test Pressure
1150	Lakewood Crude	12	August 20 2015	942 psig
244	12" Crude	12	August 20 2015	942 psig
217	Line 4	6/8	Sept 4 2014	940 psig
0222	Line 3B	6/8	Sept 4 2014	940 psig

2.2.4.13 Cleanup and Paving

Restoration of the construction sites would include removal of construction signs, debris, and surplus material and equipment. Repaving would occur in the roadways in which the construction occurred on Sepulveda Boulevard and Paramount Boulevard, but no new pavement would be required in the earth segments of construction. Any restoration would be done in compliance with the applicable permits.

The new pipeline segment route would be backfilled and returned to pre-construction conditions using compaction equipment after the clearing and proper disposal of trash, surplus material, and other debris. No re-seeding would be required as the route is an existing pipeline right-of-way property.

2.2.4.14 Erosion and Sediment Control

Detailed construction drawings and Project specifications will be prepared for this Project. All documentation would be submitted to the local agencies with jurisdiction for plan approval prior to commencing construction. These documents will reflect the following erosion control measures:

- The terrain along the proposed construction areas of the pipeline is flat. As a result, erosion issues would be minor. The location and details of all erosion measures to be implemented would be included in the construction drawings.
- Best management practices (BMPs) will be used for erosion and sediment control to include installation of silt fences, straw wattles, etc. as required. The details of these facilities will be included in the Storm Water Pollution Prevention Plan (SWPPP), and the location of these installations will be shown on the Water Pollution Control Drawings.

2.3 PROPOSED PIPELINE SAFETY MEASURES

The following safety measures will be employed to minimize the likelihood and consequences of an unintentional hydrogen release. Many of these measures go far beyond the minimums required by State and Federal regulations.

2.3.1 Monitoring

Air Products' pipelines are monitored 24 hours a day, 365 days a year from control room facilities for any abnormalities in pipeline operation including leaks and changes in pressure. Operators would view live data from pipeline meter stations, production units, and automated leak detection systems. There will be a highly trained and experienced team of field technicians that would conduct routine patrols of the pipeline route. Quarterly inspections will be performed at all insulating flanges, valve stations, above-ground piping and cased crossings. Patrols include quarterly ground level patrol and routine presence on the right-of-way.

2.3.2 Leak Detection

There will be actuated valves at the Carson Facility and at the World Energy Bio-fuels Facility. An online leak detection system will continuously monitor the pipeline to detect leaks. One automatic shutoff valve (ASV) will be installed at the existing Dominguez Pump Station along the pipeline. A manual valve will be installed in an underground vault on South street near Orizaba Avenue. Valve can be actuated automatically by the leak detection system and by the Supervisory Control and Data Acquisition (SCADA) system operators in the Carson/Wilmington and/or CSC (Houston) Control room. An automatic de-inventory vent will be installed at the Carson Hydrogen Facility.

There are also manual block valves located at each end of the pipeline. These are located within the Carson Facility and the World Energy Bio-fuels Facility.

The online leak detection system will determine the leak location and size of the leak. ASVs will be closed to isolate sections of the pipeline and vent the pipeline line segment to the flare at the Carson Facility. The valve closure (s) and location (s) will depend on the location of the leak. The isolation and de-pressurization components can be actuated automatically, via the control room operator in Carson/Wilmington and/or the USA based Customer Service Center located in Pasadena, Texas.

2.3.3 Pipeline Assessment

Air Products will use assessment techniques including pressure testing and direct assessment. Pressure testing (hydrostatic testing) involves conducting a high-pressure test of the

pipeline using water or an inert gas. This will be done prior to operation of the pipeline. Direct assessment would involve data gathering and pre-assessment, indirect assessment, direct examination, and post evaluation to understand the condition of the pipeline.

2.3.4 Pipe Joint Inspection

All of the new circumferential welds will be radiographically inspected in accordance with API 1104. This exceeds the 49 CFR 192 requirements for only a specified percentage of the circumferential welds to be inspected.

2.3.5 Cathodic Protection System

The existing pipelines are bonded electrically together using four rectifiers. The system is isolated from aboveground piping using insulated flanges in various locations. To test the integrity of the cathodic protection (CP) system, testing would be done at 32 locations along the pipeline route. The CP system(s) that are responsible for protecting these pipelines consist of the following components:

- Four impressed current cathodic protection (ICCP) rectifiers.
- Four separate ground beds.
- 32 test points along the pipeline route to check the effectiveness of the CP system.

As required by 49 CFR 192, Air Products will inspect each of its CP rectifiers to ensure that the line is being adequately protected from external corrosion.

2.3.6 Coating Survey

At the completion of construction, a coating integrity survey will be conducted along the entire length of the newly constructed pipeline. Any coating anomalies discovered will be repaired.

2.3.7 Pipe to Soil Readings

At least once each calendar year, Air Products will test their CP system by taking pipe to soil readings in accordance with 49 CFR 192.

2.3.8 Visual Inspections

Each time the buried pipe is exposed for any reason, it will be examined for evidence of external corrosion in accordance with 49 CFR 192. If active corrosion is found, Air Products will investigate and determine the extent. Pipeline operators are required to maintain records of these U.S. Department of Transportation (USDOT) required inspections. They are routinely reviewed by USDOT staff.

2.3.9 Operating Pressure

The pressure rating of the pipeline system will be significantly lower than CFR 192 allowable limits. Specified Minimum Yield Strength (SMYS) levels will be approximately 20 percent of maximum based on the derating factor of 24,000 psi in accordance with CFR code 192 section §192.107, which will provide additional safety margin to the pipeline system.

2.3.10 One-Call System

Air Products will subscribe to the USA North underground service alert “one-call” system. A toll free number is available for contractors and others to use before they begin excavations. Once a contractor calls and identifies its proposed excavation location, the organization notifies the underground facility owners in the vicinity. The owners respond to these calls with personal communications with the excavator. If their facilities are nearby, they mark the location of their facilities on the ground, so third party intrusions can be avoided. Air Products will respond to all USA queries in a timely manner, mark the exact location of the pipeline, and communicate with those responsible for the excavations. Participation in a one-call system meets the requirements for an operator's damage prevention program, per 49 CFR 192.

2.3.11 Line Marking

Air Products will comply with Federal regulations requiring the installation and maintenance of line marker posts such that the pipeline is readily identifiable. In addition, Air Products will install warning signs at each side of road, railroad, and waterway crossings, and at fence lines across open property, crossings of other lines (e.g. irrigation, oil, gas, telephone, utilities) where practical, and where the line is above ground in areas accessible to the public. These practices are intended to prevent third party damage from excavation.

2.3.12 Right-of-Way Maintenance

Air Products will control the growth of vegetation within the PPC pipeline right-of-way in accordance with internal standards and Federal regulations.

2.3.13 Marker Tape

A polyethylene marker tape, marked with an appropriate warning and the 24-hour Air Products control center phone number, will be installed approximately two feet below the ground surface, over the top of the buried pipeline. The intent of this marker tape is to alert an excavator, who may not have followed the USA One-Call regulations, before damage is caused to the pipeline.

2.3.14 Right-of-Way Inspection

Air Products will at least four times annually, and at intervals not exceeding 4.5 months between each patrol, inspect the surface conditions on or adjacent to each pipeline right-of-way. Methods of inspection include walking, driving, flying, or other appropriate means of traversing the right-of-way.

2.3.15 Public Education

Air Products will establish a continuing educational program to enable the public, appropriate government organizations and persons engaged in excavation-related activities to recognize a hazardous gas pipeline emergency and to report it to the operator or the fire, police, or other appropriate officials.

2.3.16 Risk to Existing Pipelines During Construction

Extraordinary measures will be undertaken to minimize the potential impact to existing substructures during construction. Some of the key components include:

- Coordination with owners of existing substructures
- Use of pre-qualified, experienced construction contractor
- Use of electronic line locators
- Underground Service Alert
- Pre-Excavation meetings
- Extensive use of potholing
- Using only non-mechanical digging in the immediate vicinity of known substructures.

2.3.17 Operator Qualifications

Subpart N of 49 CFR 192, Qualification of Pipeline Personnel, prescribes the minimum requirements for operator qualification of individuals performing covered tasks on a pipeline facility. Air Products will comply with these regulations.

2.4 OPERATIONS AND MAINTENANCE

The pipeline will be owned by PPC and operated by Air Products. Air Products will be responsible for all maintenance of the pipeline. The normal operating pressure will be approximately 260 psig. The pipeline will transfer a maximum of seven million cubic feet of hydrogen gas each day (MMSCFD) from the Air Products facility in Carson to the Paramount Facility. The Project would be operated as an alternative to the liquefied hydrogen currently delivered by truck at the World Energy Bio-fuels Facility.

2.4.1 Supervisory Control and Data Acquisition System

The proposed pipeline segment would be remotely monitored and operated from Air Products' SCADA system operators in the Carson/Wilmington or CSC (Houston) Control room. These control centers are continuously staffed (24 hours per day, 365 days per year).

The computerized system of pipeline communications and system control is referred to as the SCADA system. The function of the system is the send instructions and receive data from Programmable Logic Controllers (PLCs) located at each facility along the pipeline.

Air Products' pipeline operations system is based on SCADA which will gather and analyze data from multiple sources along the pipeline. SCADA will continuously monitor pipeline operations and would send alerts to the controllers if any unusual pipeline conditions were to occur. All alarms would be recorded and logged in the control center. The SCADA system has regulated power and an uninterruptible power supply (UPS).

2.4.2 Emergency Response

Air Products has an existing Emergency Response Plan that specifies measures to be taken in various emergency scenarios. The Emergency Response Plan identifies the responsible parties for the incident command and supporting agencies/organizations. Air Products' maintenance and operations personnel are trained in the Incident Command System and gas release emergency response procedures. Air Products will conduct training drills with community first responders.

In the case of leak detection, it is anticipated that ten minutes would be the average response time to various locations along the pipeline and a personnel technician would be present within one hour. ASVs are monitored via the SCADA system and actuated in the event of a leak detection scenario. remotely monitored and can be activated within the ten minute leak detection interval.

In the case of a power outage, all of the Air Products SCADA systems have battery backup. As a result, they can operate on permanent power and back-up UPS power. In the case of a loss of communications, the systems run on local independent remote terminal units (RTU's), and therefore will continue to operate as designed with loss of communication.

2.5 KEY ENVIRONMENTAL CONSIDERATIONS

The California Environmental Quality Act (CEQA) requires that a detailed analysis of potential environmental impacts of proposed development projects. CEQA identifies approximately 20 technical issues that are included in the impact analysis. While not all issues are necessarily analyzed for every proposed project, they include: aesthetics, agricultural resources, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards/risk of upset, hydrology and water quality, land use and policy consistency, mineral resources, noise, population/housing/energy, public services, recreation, transportation and traffic, tribal cultural resources, utilities and service systems, cumulative effects, and growth inducing impacts. The anticipated issues that will be addressed during the CEQA process for this Project are: air quality, cultural resources, geology and soils, hazards/risk of upset, and traffic.

2.6 SUMMARY OF IMPACT AVOIDANCE AND MINIMIZATION MEASURES

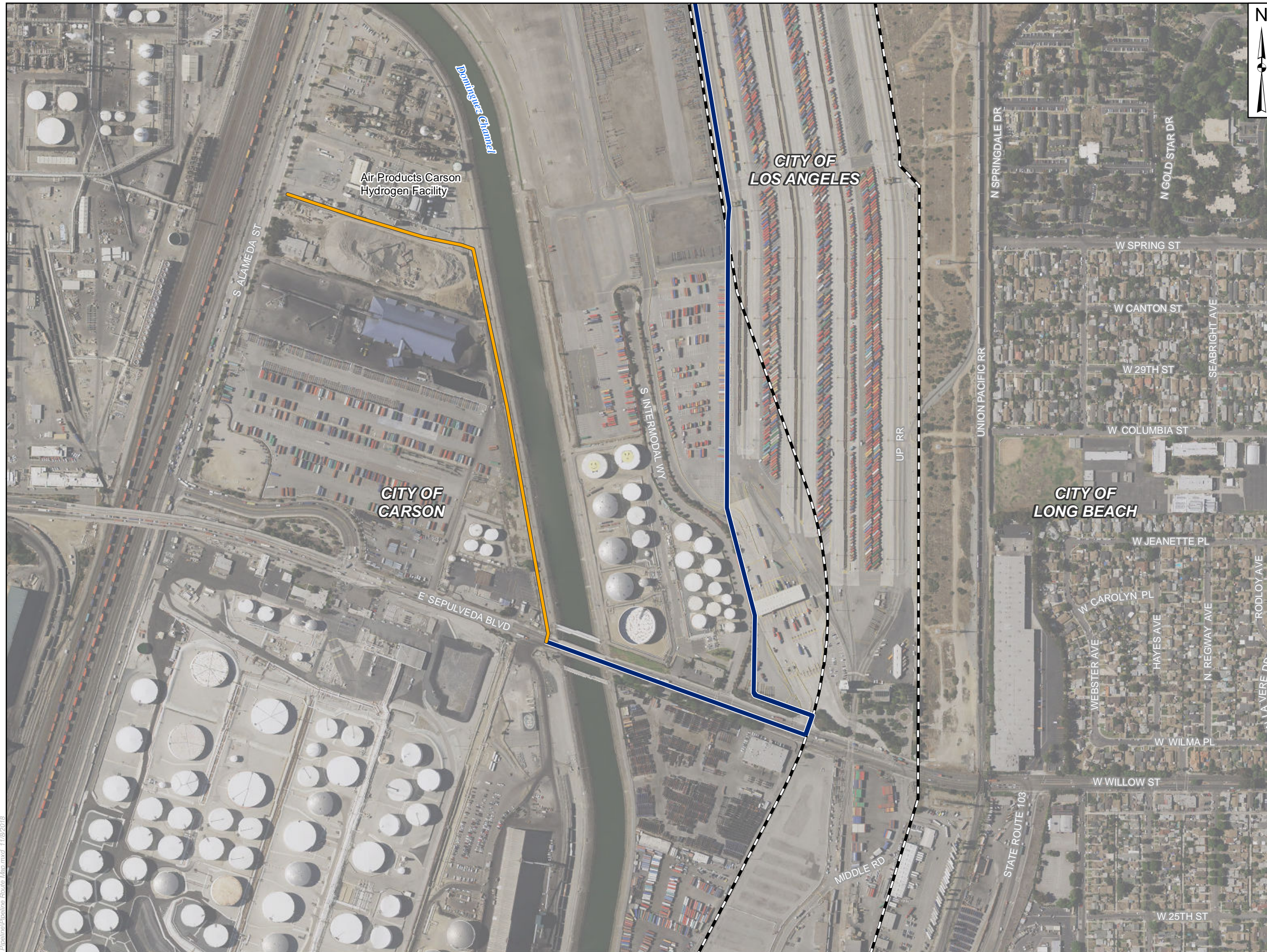
The following table presents the impact avoidance and minimization measures that have been incorporated into the Project design. Refer to Section 4 for a detailed discussion of the setting, potential impacts, proposed avoidance and minimization measures, and conclusions for each issue area.

Table 2.6-1. Summary of Avoidance and Minimization Measures

Issue Area	Measures
Air Quality	<p>The following best management practices will be followed during construction to reduce dust generation:</p> <ol style="list-style-type: none"> 1. Water all active construction sites at least twice daily. Frequency should be based on the type of operation, soil, and wind exposure. 2. Reduce travel speeds of onsite vehicles on unpaved roads and surfaces within the pipeline trench construction area to 15 miles per hour. 3. Cover inactive storage piles. 4. Sweep streets if visible solid material is carried out from the construction site.
Biological Resources	<ul style="list-style-type: none"> • Schedule ground-clearing activities prior to the initiation of nesting activity (April or after fledging (August)); or • Conduct pre-construction surveys between February 15 and August 15 in potential raptor and bird nesting habitat to identify nest sites. If an active nest is observed within the vicinity of the Project site, contact California Department of Fish and Wildlife to establish the appropriate buffer around the nest tree. For identified raptors nests, a 350-foot buffer around the nest tree would be activated. Construction activities would be prohibited in the buffer zone until the young have fledged the nest.
Cultural Resources	<ul style="list-style-type: none"> • A professional archaeologist and Native American monitor should be retained to monitor all Project related earth disturbances within the first 100 feet of the underground portion of the Project site. The area recommended for monitoring would start approximately 400 feet southeast of the intersection with South Alameda Street and where the Project site transitions from aboveground to underground. The area would continue east for 100 feet into the Air Products Carson Hydrogen Facility. • At the commencement of Project construction, the archaeological monitor shall give all workers associated with earth-disturbing procedures an orientation regarding the probability of exposing cultural resources and directions as to what steps are to be taken if a find is encountered. • The archaeologist shall have the authority to temporarily halt or redirect Project construction in the event that potentially significant cultural resources are exposed. Based on monitoring observations and the actual extent of Project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with Air Products and the lead CEQA Agency. • If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur within that area until the County Coroner has made the necessary findings as to origin and disposition to be of Native American descent. The Coroner has 24 hours to notify the Native American Heritage Commission. The lead CEQA Agency and Air Products shall also be notified of any such find.
Geology and Soils	<ul style="list-style-type: none"> • Engineering analysis for Project design will include recommended geotechnical

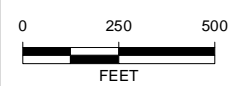
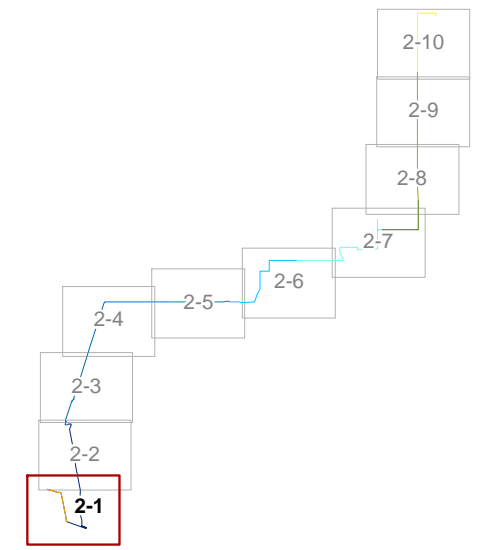
Issue Area	Measures
	<p>engineering measures for ground shaking, liquefaction hazards, and expansive soils as necessary.</p>
<p>Hazards and Hazardous Materials</p>	<ul style="list-style-type: none"> • Equipment refueling would be conducted away from waterway areas. • Hazardous materials utilized for Project construction would be stored in their original containers within secure staging areas or storage containers. • Spill containment and cleanup materials would be stored on-site for clean-up of spills during refueling or servicing of equipment. • Appendix F (QRA), presents the operating practices to be followed during operation of the proposed pipeline. • A Phase II site assessment has completed in areas along the proposed pipeline route and has identified areas of either petroleum-containing or lead-containing soils that will require special handling during trenching for the new pipeline segment along the Dominguez Channel. • A Contaminated Materials Management Plan (CMMP) will be prepared and implemented during the course of the construction activities planned at the Project site. The CMMP will include maps illustrating areas of suspected or known soil contamination. The CMMP will also include the methods for identification of contaminated materials, and removal/disposal of contaminated materials. • A site-specific Health and Safety Plan will be developed for the protection of workers and the community during the handling of contaminated materials.
<p>Hydrology and Water Quality</p>	<ul style="list-style-type: none"> • A SWPPP will be prepared for construction activities associated with the proposed Project. The SWPPP will aid in the determination of best management practices (BMPs) to prevent any pollution into the water bodies crossed by the Project site. All BMPs will be implemented to the extent feasible.
<p>Noise</p>	<ul style="list-style-type: none"> • Equipment engine covers shall be in place and mufflers shall be in good working condition.
<p>Public Services</p>	<ul style="list-style-type: none"> • The contractor would notify Underground Service Alert at least 48 hours prior to excavation so that utilities can be marked and avoided during construction. • The following measures would be taken to prevent damage to existing utilities and substructures: coordination with owners of existing substructures, use of pre-qualified experienced construction contractor, use of electronic line locators, pre-excavation meetings, extensive use of potholing, and non-mechanical digging in the immediate vicinity of known substructures. • Solid waste generated during construction would be collected from the Project site and disposed in accordance with applicable regulations. Concrete and asphalt rubble generated by the Project would be appropriately recycled.
<p>Traffic and Circulation</p>	<ul style="list-style-type: none"> • Traffic control measures would be implemented in accordance with the Work Area Traffic Control Handbook. These measures include appropriate visual traffic control including signs, traffic cones, and flaggers. These measures are intended to reduce hazards to both workers and motorists during construction. • Warning signs would be installed prior to construction to notify through traffic of trucks entering and leaving the site and to allow commuters to plan for alternative

Issue Area	Measures
	<p>routes.</p> <ul style="list-style-type: none">• Alternative vehicle and pedestrian access would be established.• Construction would be minimized during Holidays when feasible.
Utilities and Service Systems	<ul style="list-style-type: none">• Underground Service Alert. The contractor would notify Underground Service Alert at least 48 hours prior to excavation so that utilities can be marked and avoided during construction.• During operation, pipeline inspections would be conducted routinely in accordance with State and Federal regulations



- LEGEND:**
- City Boundary
 - New Pipeline Segment
 - Existing Pipeline Segment**
 - PPC Line 12 Crude 1150, Seg. 2
 - PPC Line 12 Crude 244, Seg. 1
 - PPC Line 12 Crude 244, Seg. 2
 - PPC Line 4, Seg. 3
 - PPC Line 4, Seg. 4
 - PPC Line 4, Seg. 5
 - PPC Line 4, Seg. 6
 - PPC Line 4, Seg. 7
 - PPC Line 4, Seg. 8

MAP EXTENT:



Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA
 PROJECT NUMBER: 1802-2611
 DATE: November 2018

PIPELINE ROUTE MAP

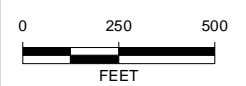
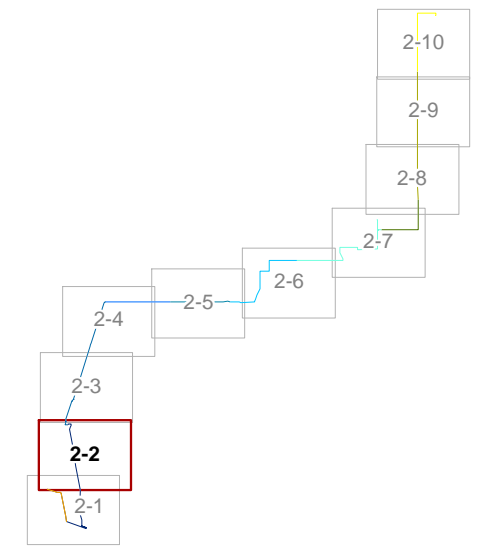
FIGURE 2-1



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



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PIPELINE ROUTE MAP

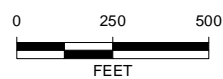
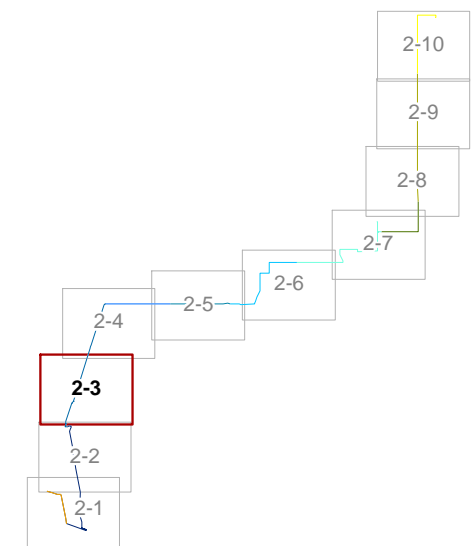
FIGURE 2-2



LEGEND:

- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
 - PPC Line 12 Crude 1150, Seg. 2
 - PPC Line 12 Crude 244, Seg. 1
 - PPC Line 12 Crude 244, Seg. 2
 - PPC Line 4, Seg. 3
 - PPC Line 4, Seg. 4
 - PPC Line 4, Seg. 5
 - PPC Line 4, Seg. 6
 - PPC Line 4, Seg. 7
 - PPC Line 4, Seg. 8

MAP EXTENT:



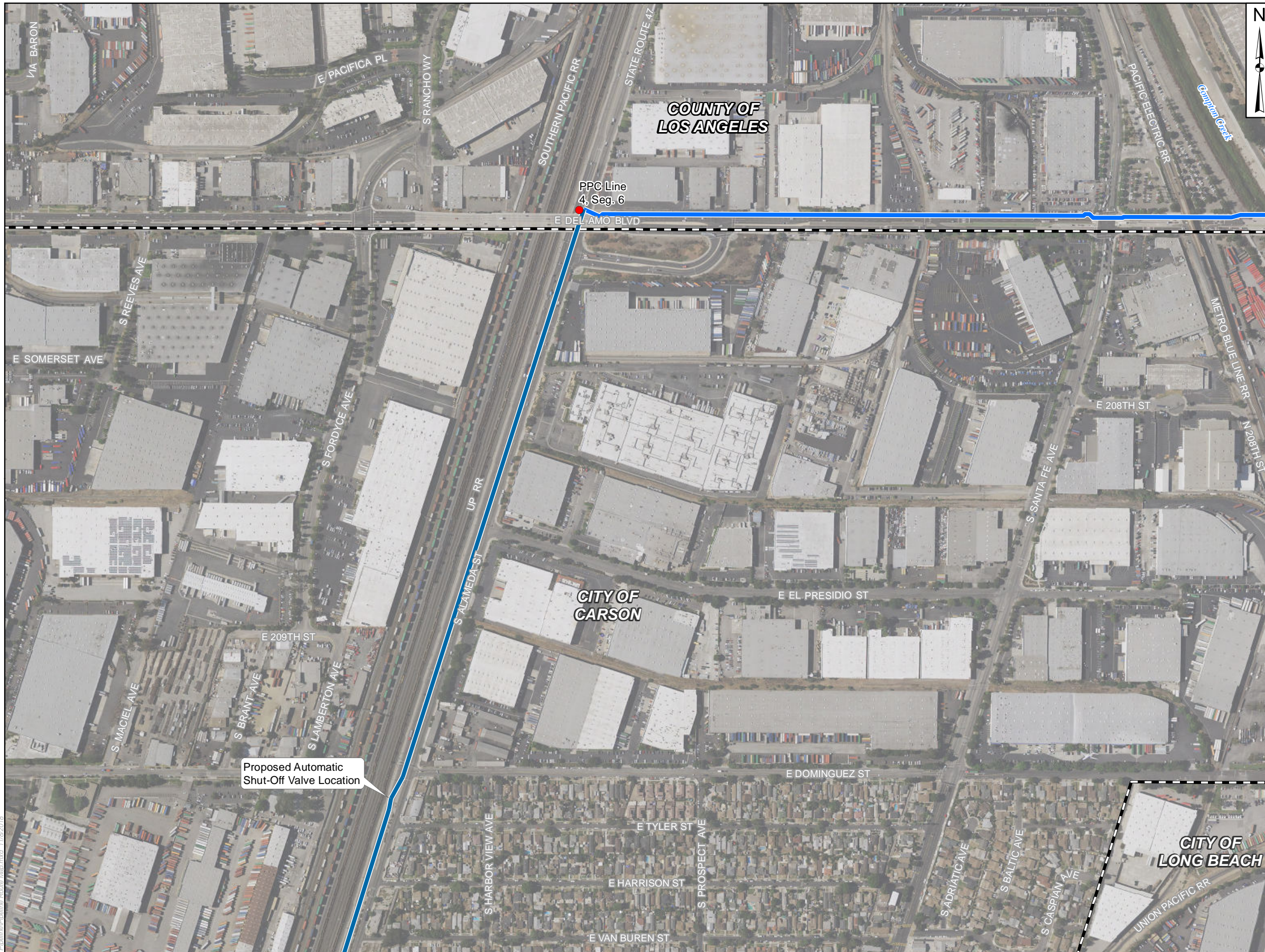
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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

FIGURE 2-3

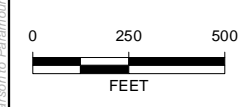
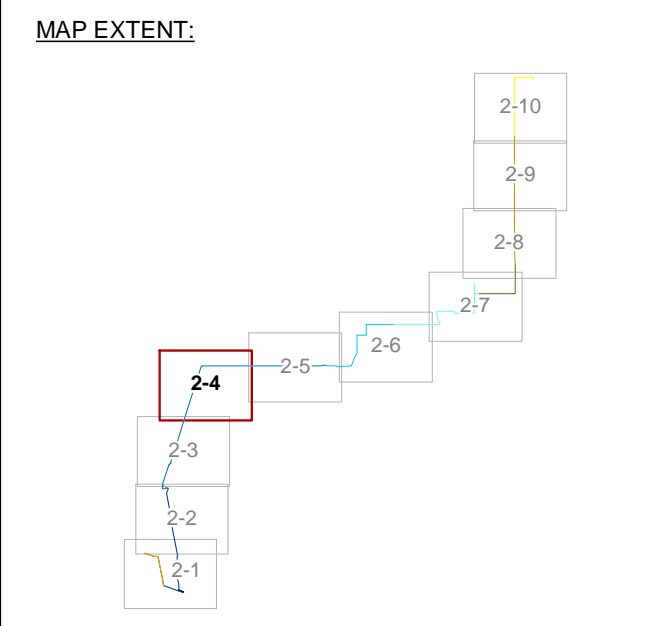


LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment

Existing Pipeline Segment

- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8



Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT
 LOS ANGELES COUNTY, CA

PROJECT NUMBER: 1802-2611 DATE: November 2018

PIPELINE ROUTE MAP

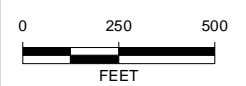
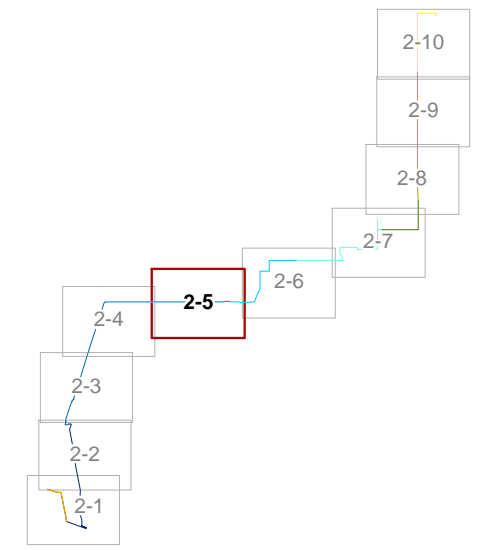
FIGURE 2-4



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



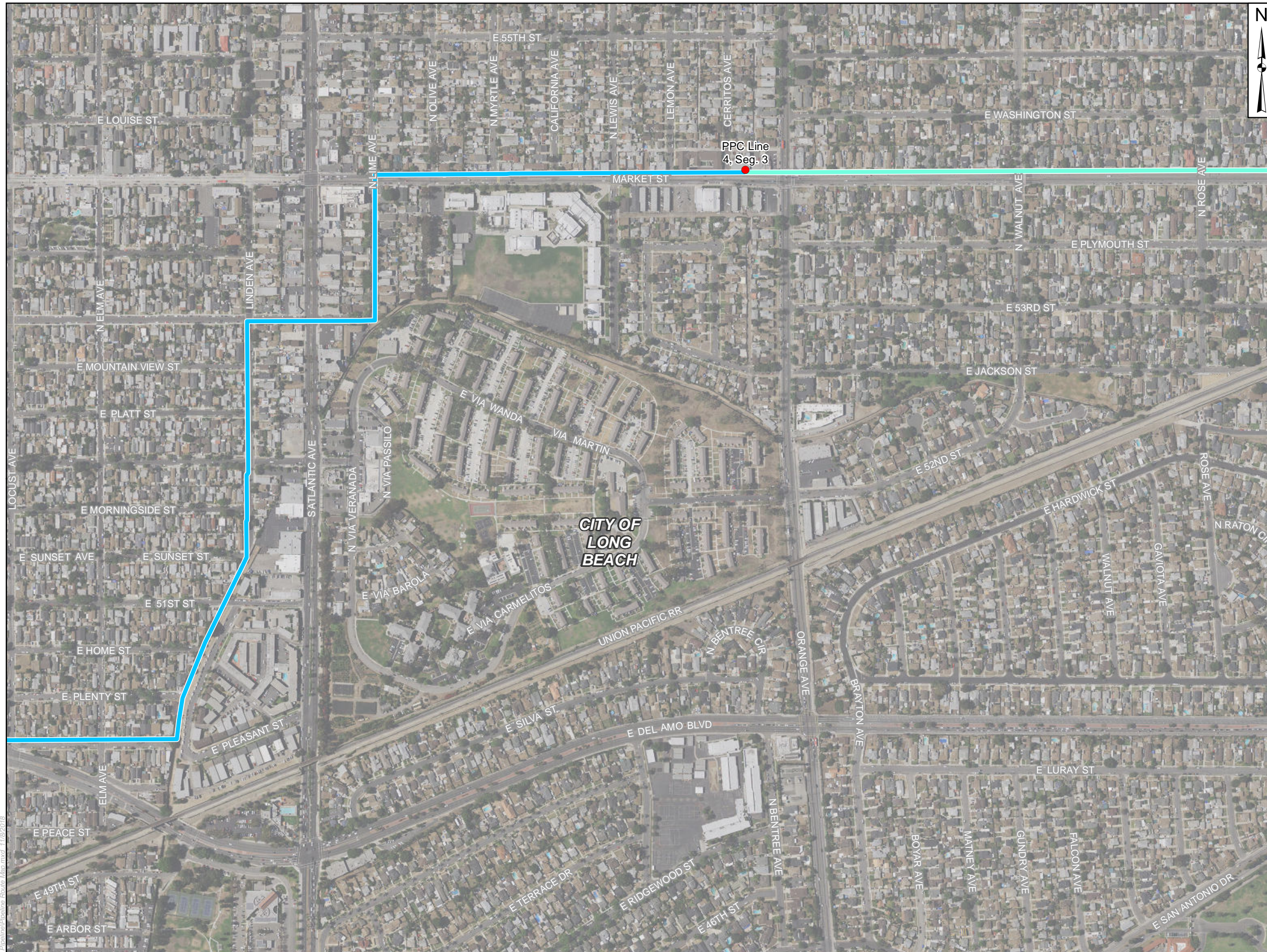
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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

FIGURE 2-5



LEGEND:

● Segment Marker

□ City Boundary

— New Pipeline Segment

Existing Pipeline Segment

— PPC Line 12 Crude 1150, Seg. 2

— PPC Line 12 Crude 244, Seg. 1

— PPC Line 12 Crude 244, Seg. 2

— PPC Line 4, Seg. 3

— PPC Line 4, Seg. 4

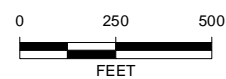
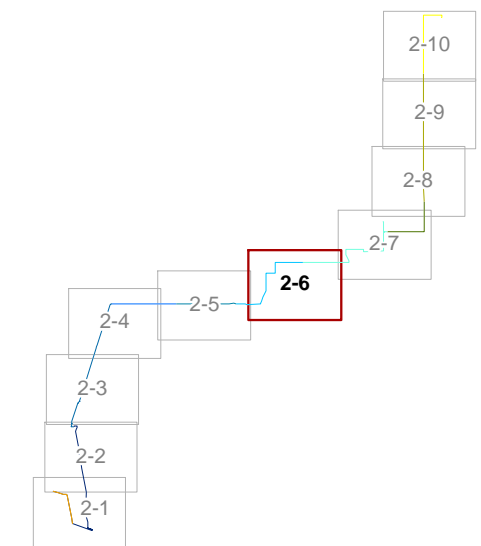
— PPC Line 4, Seg. 5

— PPC Line 4, Seg. 6

— PPC Line 4, Seg. 7

— PPC Line 4, Seg. 8

MAP EXTENT:



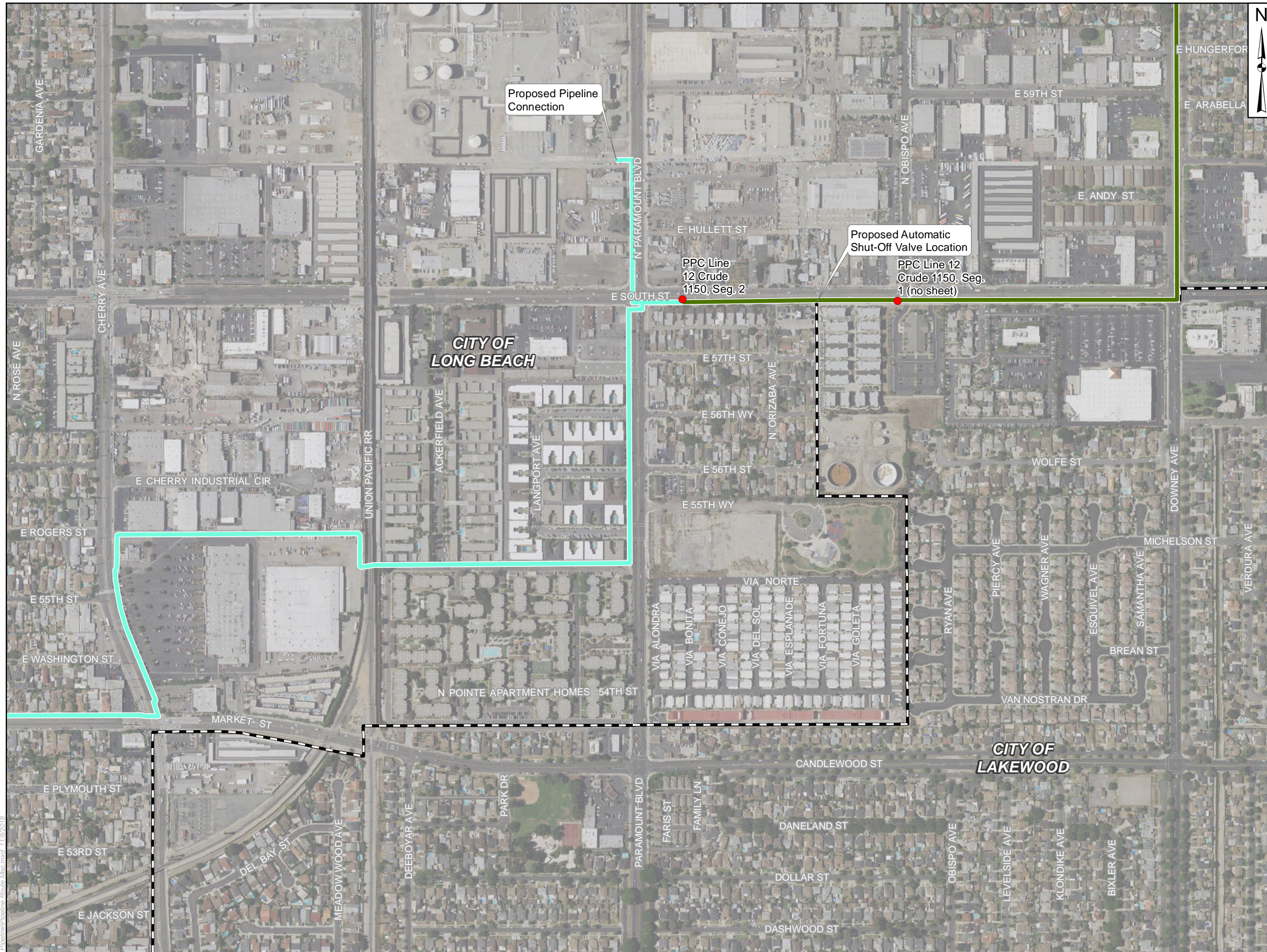
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
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PROJECT NAME: CARSON TO PARAMOUNT
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PIPELINE ROUTE MAP

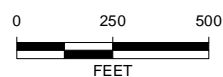
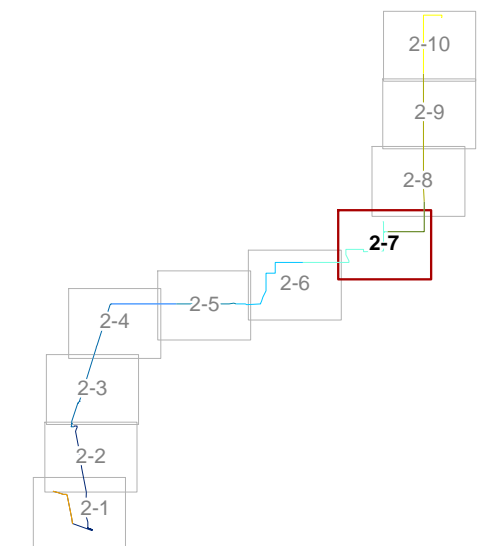
FIGURE
2-6



LEGEND:

- Segment Marker
- ▭ City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



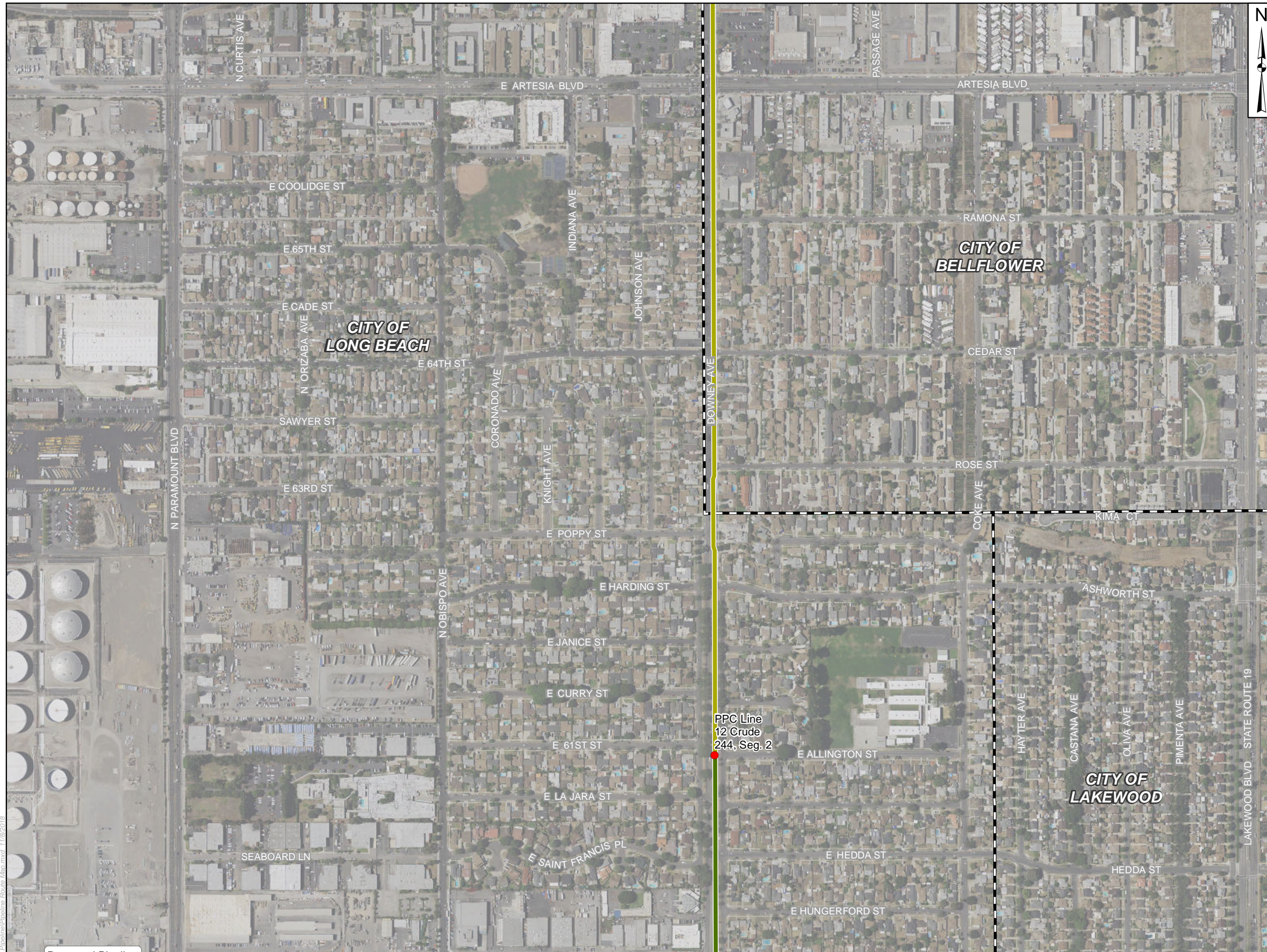
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

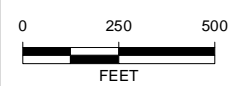
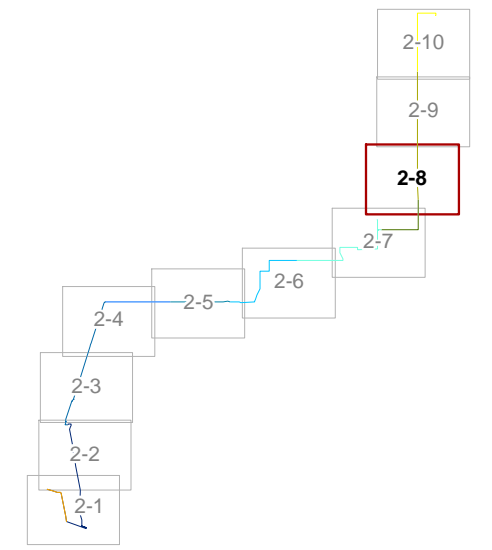
FIGURE 2-7



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



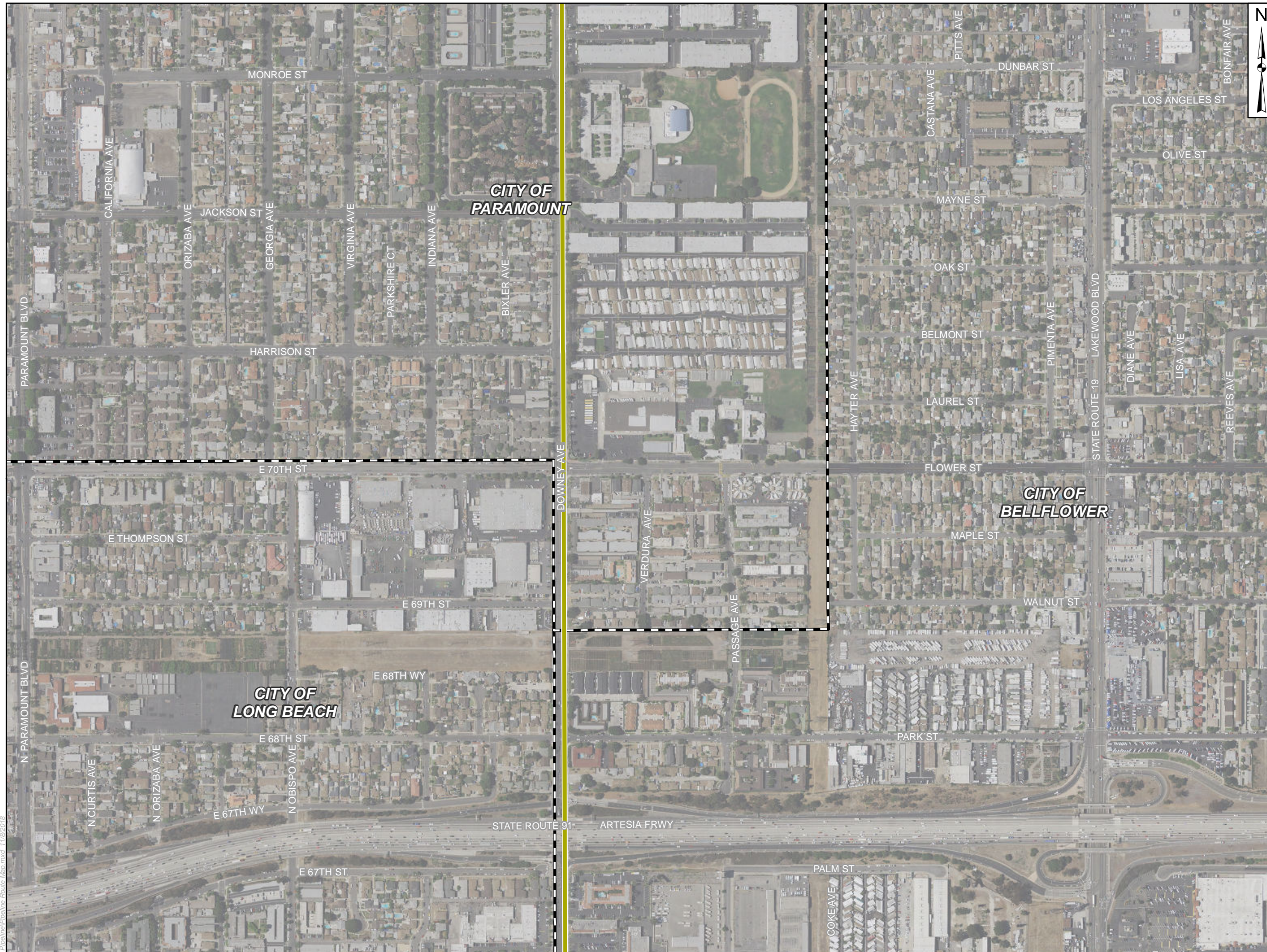
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

FIGURE 2-8



LEGEND:

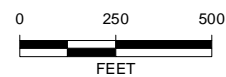
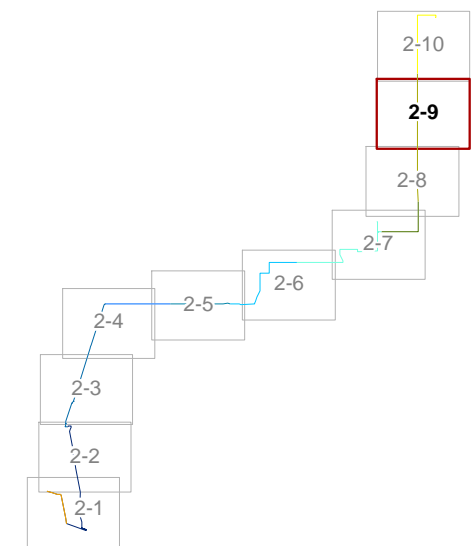
City Boundary

New Pipeline Segment

Existing Pipeline Segment

- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

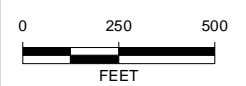
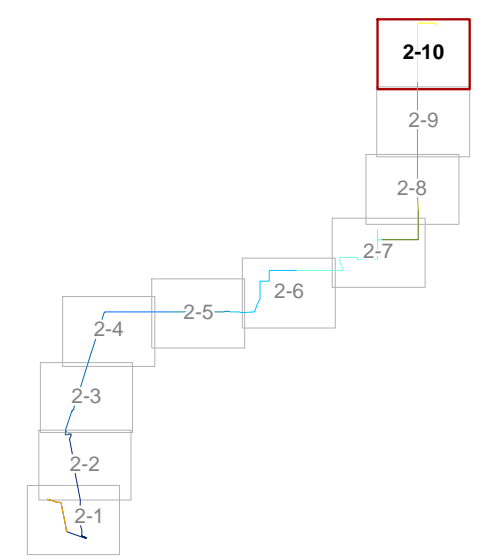
FIGURE 2-9



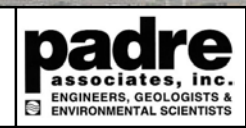
LEGEND:

- Segment Marker
- ▭ City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

FIGURE
2-10

3.0 ENVIRONMENTAL/REGIONAL SETTING

3.1 REGIONAL SETTING

The proposed Project is located in southern California. The Project area is influenced by the Mediterranean climate which is characterized by warm, dry summers followed by cool, wet winters. The majority of precipitation falls between November and April. Average annual precipitation in the region is approximately 14 inches, which varies from year to year. Summer temperatures for the area range from highs in the 80s to lows in the 60s. Winter temperatures range from the upper 60s to 70s to lows in the 40s and 50s.

The proposed Project would consist of a pipeline route from the Air Products' hydrogen facility in the City of Carson to the World Energy Bio-Fuels Facility in the City of Paramount. The Project area is generally level and has been modified by urban development. The Project alignment is predominantly within an existing pipeline corridor, and will traverse through the cities of Carson, Los Angeles, Long Beach, Lakewood, Bellflower, and Paramount, and also traverses through a portion of Los Angeles County.

3.2 ENVIRONMENTAL SETTING

The following environmental impact assessment provides an analysis of the potential impacts associated with the proposed Project. The analysis is organized by environmental issue area (e.g., Air Quality, Biological Resources, Water Quality, etc.). Applicable environmental setting information is given prior to each impact assessment in order to establish existing conditions along the Project alignment to the proposed Project activities.

4.0 ENVIRONMENTAL IMPACT ASSESSMENT

4.1 AESTHETICS

4.1.1 Setting

The site of the proposed Project is located within an area of industrial, commercial, and residential land uses. The portion of the Project site that will experience construction activities under the proposed Project currently exists as a developed industrial facility and an existing pipeline corridor. There are no state-designated scenic highways that would be crossed by the proposed pipeline route in new construction or existing pipe.

4.1.2 Regulatory Setting

4.1.2.1 City of Carson General Plan- Land Use Element

Goal LU-12: Create a visually attractive appearance throughout Carson.

Implementation Measure LU-IM-7.3: Where a discretionary review may be required, address compatibility issues (e.g., maneuverability of trucks on site, scheduling and hours of operation, visual screening, noise, etc.).

4.1.3 Impact Discussion

Aboveground construction would occur within the Air Products Carson Facility. the new construction of the pipeline along the Dominguez Channel, at the two ASV locations, and at the pipeline connection within the World Energy Bio-fuels Facility in Paramount. The pipeline route would cross three water bodies, the Dominguez Channel, Compton Creek, and the Los Angeles River, using existing pipe that cross each channel using pipe bridges. The construction of the new pipeline segment would be visible from South Alameda Street and East Sepulveda Boulevard. Within Long Beach, construction would be limited to street construction within North Paramount Boulevard. During Project operations, all off-site portions of the pipeline would be underground.

The proposed construction areas for the Project would require trenching at the Carson and Long Beach sites. Staging areas for each site would be on nearby storage facilities or on site. The Air Products Carson Facility would serve as the staging area for the new pipeline construction equipment and materials. This would occur in a low-traffic, highly industrialized area. Visibility of the construction area would be limited to drivers on East Sepulveda Boulevard and construction is expected to last 20 weeks. Construction for the pipeline connection on North Paramount Boulevard in Long Beach would be visible from North Paramount Boulevard, which is zoned General Industrial. Construction activities in this area would last eight weeks. The visual impacts for aboveground construction areas are expected to be less than significant, as visual impairment would be on a limited timeframe, there are no scenic areas in the vicinity and the Project will not detract from the visual character of the area. There will be no long-term impact from the Project on aesthetics.

4.1.4 Avoidance and Minimization Measures

No avoidance or minimization measures would be required.

4.1.5 Conclusion

There are potential short-term negative impacts to aesthetics during the construction phase of the Project. There would be limited visibility of the Project area from nearby roadways and all areas of construction are zoned for industrial uses. The incremental increase in activity in these industrial areas is not expected to have a significant visual impact.

4.2 AIR QUALITY

An Air Quality Impact Assessment (AQIA) has been prepared for the proposed project by Trinity Consultants, Inc. (Trinity), and is included as Appendix C. The AQIA concludes that the Project will not result in significant air quality impacts. Best management practices are included to reduce dust emissions during construction of the new pipeline along the Dominguez Channel.

4.3 BIOLOGICAL RESOURCES

This section addresses the environmental setting, potential impacts, and proposed avoidance and minimization measures for biological resources; including vegetation, waterways, and wildlife. Because the Project site is located within heavily disturbed sites, such as roadways and industrial areas, a biological survey was not conducted.

4.3.1 Setting

Padre conducted a desk-top review of the Project alignment to determine potential biological resource constraints associated with the proposed Project. This review included a query of the California Natural Diversity Database (CNDDDB [CNDDDB, 2018]) for the purposes of identifying documented occurrences of special-status plant and wildlife species within the vicinity of the Project alignment. The majority of the Project alignment is within existing industrial corridors and residential areas. The Project alignment will cross the Dominguez Channel, Compton Creek, and Los Angeles River on existing pipeline bridges. There are two street-level construction locations along the Project alignment; Segment 1 and Segment 7:

Segment 1: One-half mile of new pipe will be constructed underground along a dirt path bordering the Air Products Hydrogen Facility and will connect with an existing PPC pipe at Sepulveda Boulevard. This segment has been previously disturbed and supports very little, if any, vegetation.

Segment 7: Two existing PPC pipelines will be connected at an alleyway on North Paramount Boulevard, North of South Street in the City of Long Beach. There is no vegetation present in the proposed construction area.

The pipeline route crosses mostly developed road rights-of-way. Generally, developed areas provide habitat of minimal value for plant and wildlife species, and consist of ruderal cover including non-native annual grasses and herbs. The only non-paved area is in Segment 1, where the new underground pipeline will be constructed. The area is surrounded by industrialized zones not supportive of wildlife.

Waterways. The proposed pipeline will cross the Dominguez Channel, Compton Creek, and Los Angeles River on existing pipeline bridges. Segment 1 crosses the Dominguez Channel, a 15.7-mile-long stream artificially bounded by a system of storm drains starting in Hawthorne and discharging into the east basin of the Los Angeles Harbor. The section of the channel, which

runs through the proposed construction zone in Carson, is lined with concrete and offers minimal habitat value to species.

Compton Creek is a major sub-watershed that feeds into the Los Angeles. It has a watershed of 42 square miles. It joins the Los Angeles River near the 710 Freeway at Del Amo Boulevard. This section of creek is heavily urbanized and the creek is concrete-lined in this section, with minimal habitat value.

The Los Angeles River begins in the Simi Hills and the Santa Susana Mountains and empties out into the Long Beach Harbor. The River is about 51 miles long, and the Project alignment crosses over a section of the river in the City of Long Beach. The location is heavily industrialized and the river is concrete-lined at this section. Both of the rivers are heavily polluted from run-off and storm water. There is little to no suitable habitat for sensitive species.

Special Status Species. For the purpose of this report, special-status species were considered to be those plant and animal taxa listed or proposed for listing as threatened or endangered under the Federal Endangered Species Act (FESA) and/or the California Endangered Species Act (CESA), Federal or State species of concern, and/or candidates for listing, and plant species listed as 1B by the California Native Plant Society (CNPS).

Special-Status plant and wildlife species potentially occurring in the vicinity of the Project alignment were identified through a query of the CNDDDB for the Long Beach and South Gate USGS 7.5-minute quadrangles. The query resulted in 31 special-status species that could be preset within the Project alignment. Refer to Table 4.4-1 for a list of plant and wildlife species

Table 4.4-1. Special Status Plant and Wildlife Species

Scientific Name Common Name	Status	Habitat Requirements	Nearest Known Location
PLANT SPECIES			
<i>Atriplex coulteri</i> Coulter's saltbush	List 1B.2	Coastal bluffs and dunes, valley and foothill grasslands	Bixby Knolls. Exact location unknown
<i>Atriplex parishii</i> Parish's brittlebush	List 1B.1	Vernal pools, chenopod scrub, alkali flats with fine soil	Bixby. Near Bixby Knolls, N of Long Beach
<i>Centromadia parryi</i> ssp. <i>australis</i> southern tarplant	List 1B.1	Marshes and swamps, valley and foothill grassland, vernal pools	Bryant Ranch near Long Beach, North of 7 th St and East of Atlantic Ave.
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i> salt marsh bird's-beak	List 1B.2	Marshes and swamps, coastal dunes	Long Beach
<i>Isocoma menziesii</i> var. <i>decumbens</i> decumbent goldenbush	List 1B.2	Coastal scrub and chaparral	Terminal Island. Exact location unknown
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i> Coulter's goldfields	List 1B.1	Coastal salt marshes, vernal pools	W of LA River channel, between Long Beach Blvd. and Del Mar Ave.
<i>Navarretia prostrata</i> prostrate vernal pool navarretia	List 1B.1	Coastal scrub, valley and foothill grassland, vernal pools, meadows	Wilmington. Information from 1882
<i>Nemacaulis denudata</i> var. <i>denudata</i> coast woolly-heads	List 1B.2	Coastal dunes	Seal beach and Alamitos
<i>Orcuttia californica</i> California Orcutt grass	List 1B.1	Vernal pools	Near Lakewood, W LA County

Table 4.4-1. Special Status Plant and Wildlife Species

Scientific Name Common Name	Status	Habitat Requirements	Nearest Known Location
<i>Pentachaeta lyonii</i> Lyon's pentachaeta	List 1B.1	Chaparral, Valley and foothill grassland- edges of clearings	Wilmington.
<i>Phacelia stellaris</i> Brand's star phacelia	List 1B.1	Coastal scrub, coastal dunes	Downey Cemetery
<i>Suaeda esteroa</i> estuary seablite	List 1B.2	Marshes and Swamps	Belmont Shores, Colorado Lagoon near Park Ave and Colorado St, Long Beach
<i>Symphotrichum defoliatum</i> San Bernardino aster	List 1B.2	Meadows and seeps, coastal scrub, coniferous forest, valley and foothill grassland	Bryant Ranch, Bixby Ave, 1.3 mi West of Hansen Rd. Long Beach
WILDLIFE SPECIES			
<i>Anniella stebbinsi</i> Southern California legless lizard	CSC	Moist, loose soil under sparse vegetation	City of South Gate, mapped non-specifically at the post office
<i>Athene cunicularia</i> burrowing owl	CSC	Open, dry grasslands, deserts, and scrublands	Herman Hills, LA
<i>Bombus crotchii</i> Crotch bumble bee	CNDDDB	Coastal California near flowering plants	Long Beach. Exact locations unknown
<i>Cicindela gabbii</i> western tidal-flat tiger beetle	CNDDDB	Estuaries and mudflats	Wilmington. Exact locations unknown
<i>Cicindela hirticollis gravida</i> sandy beach tiger beetle	CNDDDB	Areas adjacent to non-brackish water in clean and dry sand	Terminal Island. Exact location unknown
<i>Cicindela latesignata latesignata</i> western beach tiger beetle	CNDDDB	Mudflats and beaches in coastal southern CA	Long Beach. Along the coast.
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	FT, SE	Riparian nester, along broad lower flood-bottoms of larger river systems, jungles of willow and cottonwoods	Dominguez. Mapped generally to given locality
<i>Danaus plexippus pop. 1</i> Monarch - California overwintering population	CNDDDB	Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress)	Heartwell park, SE of the intersection of Carson St and Clark Ave, Long Beach
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	FE, SE	Riparian woodlands in Southern CA	Compton. No other location information given.
<i>Lasionycteris noctivagans</i> silver-haired bat	CNDDDB	Roots in hollow trees, bark, woodpecker holes near the forest and feeding over streams and ponds	Long Beach. South of the intersection of 20 th St and Maine Ave
<i>Nyctinomops macrotis</i> big free-tailed bat	CNDDDB	Low-lying arid areas, cliffs or rocky outcrops for roosting	Long Beach
<i>Pelecanus occidentalis californicus</i> California brown pelican	FP	Coastal islands just outside the surf line	Eastern and middle Long Beach Harbor breakwaters
<i>Perognathus longimembris pacificus</i> Pacific pocket mouse	FE	Narrow coastal plains in sands near the ocean	Wilmington
<i>Phrynosoma blainvillii</i> coast horned lizard	CSC, CNDDDB	Moist, loose soil with a high moisture content, usually under sparse vegetation	City of South Gate, Los Angeles County
<i>Riparia riparia</i> bank swallow	ST	Nests primarily in riparian and lowland habitats. Requires vertical banks/ cliffs near rivers, lakes, or oceans	Ocean bluff near Bixby park, Long Beach
<i>Sternula antillarum brownii</i> California least tern	FE, SE	Nests along the coast, breeder on care or sparsely vegetated, flat substrated- sand beaches	Belmont shore beach at foot of Corona Ave, Long Beach

Table 4.4-1. Special Status Plant and Wildlife Species

Scientific Name Common Name	Status	Habitat Requirements	Nearest Known Location
<i>Taxidea taxus</i> American badger	CSC	Dry open stages of most shrub, forest, and herbaceous habitats, need uncultivated ground	Los Angeles. No other location information
<i>Vireo bellii pusillus</i> least Bell's vireo	FE, SE	Summer resident in low riparian areas in vicinity of water, nests placed along margins of bushes or in twigs of willows	Florence, W of Huntington Park
Notes:			
FE – Federal endangered species	FSC – Federal species of concern	ST – State threatened species	List 1B.1- Plants seriously threatened in CA (CNPS)
FT -- Federal threatened species	CSC – California Species of Special Concern	CNDDDB – California Natural Diversity Database	List 1B.2- Plants moderately threatened in CA (CNPS)
FC – Federal candidate species	FP- Fully Protected (CDFW)		

The following is a list of the 11 special-status species located in the immediate vicinity of the Project alignment.:

Plant Species

- Coulter's saltbush (*Atriplex coulteri*)- extirpated
- Parish's brittlescale (*Atriplex parishii*)- extirpated
- Prostrate vernal pool navarretia (*Navarretia prostrata*)- presumed extirpated
- California Orcutt grass (*Orcuttia californica*)- extirpated
- Lyon's pentachaeta (*Pentachaeta lyonia*)- presumed extirpated

Wildlife Species

- Southern California legless lizard (*Anniella stebbinsi*)- extant
- Western tidal-flat tiger beetle (*Cicindela gabbii*)- extirpated
- Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)- extirpated
- Monarch butterfly (*Danaus plexippus*)
- Pacific pocket mouse (*Perognathus longimembris pacificus*)- extirpated
- Coast horned lizard (*Phrynosoma blainvillii*)- presumed extirpated

Of these species, only two are extant or presumed extant. The species and their suitable habitat are described below.

Monarch butterfly (*Danaus plexippus*): This species is not formally listed as State or Federal endangered or threatened species; however, over-wintering monarch butterflies are considered to be a “special animal” by the CDFW. Monarch butterfly wintering sites are classified as “demonstrably secure” worldwide but within California they are considered of “restricted range; rare.” The species overwinters in California from October to March. The population of the butterfly, last observed in 2009, exists within a pine grove in Heartwell Park, Long Beach, California. There is no proposed construction within five miles of the stated population. The

Project site, consisting of paved roads and a dirt corridor with minimal vegetation, would not be a suitable habitat because the monarchs require tree groves with water and nectar sources nearby.

Southern California legless lizard (*Anniella stebbinsi*): The lizard is presumed extant, but the last recorded observation of one near the proposed Project site was in 1939. It is considered a Species of Special Concern with the CDFW. The legless lizard prefers soils with a high moisture content in sparsely vegetated areas. Since the Project follows mostly right-of-ways, there is no suitable habitat for this species in or around the pipeline route.

The proposed pipeline route and associated construction sites do not support native vegetation or otherwise provide suitable habitat for all the listed special-status plant species. Because they are concrete lined and contain pollutants, the Los Angeles River and Dominguez Channel at the proposed pipeline crossings also do not provide suitable habitat for special-status plants reported from the area. In any case, the work areas to be used for the pipe installation of the Air Products Hydrogen Pipeline do not support native vegetation or wildlife habitat.

4.3.2 Regulatory Setting

Federal Endangered Species Act. Enacted in 1973, the Federal Endangered Species Act (ESA) provides for the conservation of threatened and endangered species and their habitat. The Act prohibits the “take” of threatened and endangered species except under certain circumstances and only with authorization from the USFWS through a permit under Section 4(d), 7, or 10(a) of the ESA. Under the ESA, “take” is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The ESA requires federal agencies to make a finding on all federal actions, including approval by an agency of a public or private action, as to the potential to jeopardize the continued existence of any listed species.

The Migratory Bird Treaty Act. The focus of the Migratory Bird Treaty Act (MBTA) was the “Establishment of a Federal prohibition, unless permitted by regulations, to pursue, hunt, take, capture, kill, attempt to take, capture or kill, possess, offer for sale, sell, offer to purchase, purchase, deliver for shipment, ship, cause to be shipped, deliver for transportation, transport, cause to be transported, carry, or cause to be carried by any means whatever, receive for shipment, transportation or carriage, or export, at any time, or in any manner, any migratory bird, included in the terms of this Convention for the protection of migratory birds, or any part, nest or egg of any such bird” (16 USC 703).

Clean Water Act. The Clean Water Act (CWA), formally entitled the Federal Water Pollution Control Act of 1972, is comprehensive legislation enacted to protect the nation’s waters. The Act generally includes reference to its substantial supplementation by the CWA of 1977. Both Acts were subsequently amended in 1981, 1987, and 1993. Overall, the CWA seeks to protect the nation’s water from pollution by setting water quality standards for surface water and by limiting the discharge of effluents into waters of the United States (Waters). These water quality standards are enforced by the U.S. Environmental Protection Agency (EPA).

The U.S. Army Corps of Engineers (ACOE) is responsible for the issuance of permits for the placement of dredged or fill material into Waters pursuant to Section 404 of the Clean Water Act (33 USC 1344). As defined by the ACOE in 33 CFR 328.3(a)(3), Waters are those waters that are currently used, or were used in the past, or may be susceptible to use in interstate or

foreign commerce, including all waters which are subject to the ebb and flow of the tide; tributaries and impoundments to such waters; all interstate waters including interstate wetlands; and territorial seas. In addition, federal guidance has been developed that requires careful examination and documentation of the physical location(s) and hydrologic connections among waters/wetlands. To determine federal jurisdiction, particular focus is given to (1) surface hydrologic connections between a wetland and “navigable waters in fact”, (2) “adjacency” of a wetland to traditionally navigable waters, and thus (3) a “significant nexus” to interstate commerce. Waters/wetlands features can also be determined to be under federal jurisdiction by the ACOE or EPA if a “significant nexus” can be shown between the wetland feature in question and its contribution to the maintenance or restoration of the physical, chemical, or biological integrity of downstream waters that are traditionally navigable.

In non-tidal waters, the lateral extent of ACOE jurisdiction is determined by the ordinary high water mark (OHWM), which is defined as the: “...line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas” (33 CFR 328[e]).

California Endangered Species Act. The California Endangered Species Act (CESA) generally parallels the main provisions of ESA and is administered by CDFW. CESA prohibits take of any species that the California Fish and Game Commission determines to be a threatened or endangered species and allows for take incidental to otherwise lawful development projects upon approval from the CDFW. Under the California Fish and Game Code, “take” is defined as to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill. CESA includes a “rare” designation for plants only and addresses those plants that are not threatened or endangered, but that could become eligible due to decreasing numbers or further restrictions to habitat. Any anticipated Project-related impact to State-listed species would require a permit under CESA..

Porter Cologne Water Quality Control Act. The Porter-Cologne Water Quality Control Act (CA Water Code §§ 13000-13999.10) mandates that waters of the state shall be protected, such that activities that may affect waters of the state shall be regulated to attain the highest quality. This Act establishes the State Water Resources Control Board (SWRCB) as the principal state agency for controlling water quality in California. The SWRCB provides regulations that mandate a “non-degradation policy” for state waters, especially those of high quality. The SWRCB is divided into local Regional Water Quality Control Boards (RWQCB).

Pursuant to Section 401 of the CWA, the ACOE cannot issue a federal permit until the State of California first issues a water quality certification to ensure that a project will comply with state water quality standards. The authority to issue water quality certifications for the following Project is vested with the Central Coast RWQCB.

California Fish and Game Code. The CDFW administers a number of laws and programs designed to protect fish and wildlife resources. Principal of these is the California Endangered Species Act of 1984 (CESA) Fish and Game Code Section 2050 that regulates the listing and take of State Endangered and Threatened species. CDFW also maintains lists of Candidate-Endangered species and Candidate-Threatened species. California Candidate species are

afforded the same level of protection as listed species. CDFW also designates Species of Special Concern that are of limited distribution, declining populations, diminishing habitat, or unusual scientific, recreational, or educational value. These species do not have the same legal protection as listed species, but may be added to official lists in the future.

The CDFW also manage a Watch List that includes “Taxa to Watch” (Shuford and Gardali, 2008), which includes: 1) species not on the current Special Concern list but were on previous lists and they have not been State listed under CESA; 2) species that were previously State or federally listed and now are on neither list; or 3) species are on the list of Fully Protected species.

CDFW administers other State laws designed to protect wildlife and plants. Section 3511 of the California Fish and Game Code designates species that are afforded Fully Protected status. Fish and Game Code Sections 4700 and 5515 assign the same status to specified mammals and fish. These statutes generally provide that specifically identified birds, mammals, and fish “or parts thereof may not be taken or possessed at any time and no provision of [the Fish and Game] code or any other law shall be construed to authorize the issuance of permits or licenses to take any fully protected [bird, mammal, or fish] and no permits or licenses heretofore issued shall have any force or effect” for any such purpose. Section 3503.5 protects birds-of-prey (Falconiformes and Strigiformes), their eggs, and their nests. In addition, Section 3513 provides protection to the birds listed under the MBTA, essentially all native birds.

CDFW manages the California Native Plant Protection Act of 1977 (Fish and Game Code Section 1900, et seq.), which was enacted to identify, designate and, protect rare plants. The California Native Plant Society (CNPS) operates under a Memorandum of Understanding with the CDFW and outlines broad cooperation in rare plant assessment and protection, and formalizes cooperative ventures such as data sharing and production of complementary information sources for rare plants.

Pursuant to Section 1602 of the California Fish and Game Code, CDFW requires a Lake or Streambed Alteration Agreement (LSAA) between CDFW and any State or local governmental agency, public utility, or private party before the initiation of any construction project that will: 1) divert, obstruct, or change the natural flow or the bed, channel, or bank of any river, stream, or lake; 2) use materials from a streambed; or 3) result in the disposal or deposition of debris, waste, or other material containing crumbled, flaked, or ground pavement where it can pass into any river, stream, or lake. Therefore, the bed, bank, and channel of a water body, including adjacent riparian vegetation, lies within the CDFW jurisdiction.

4.3.3 Impact Discussion

Potential short-term impacts will result from construction activities at the Project alignment. Lighting associated with nighttime construction may limit foraging and breeding activity of nocturnal wildlife and increase predation rates by exposing prey. However, construction zones would be near locations with few, if any, wildlife species in the area. Furthermore, nearly all construction would be conducted during daylight hours such that lighting impacts are considered minimal.

Construction noise could agitate wildlife in the area; however, most of the Project alignment is within existing industrial areas and busy freeways and streets. Construction noise would be short-term and temporary; therefore, there will be no long-term noise impacts on wildlife.

Elevated ambient concentrations of particulates, hydrocarbons, carbon monoxide and nitrogen oxides generated by construction equipment may adversely affect wildlife populations. Construction would be short-term and temporary; therefore, air quality impacts to wildlife are expected to be minimal.

4.3.4 Avoidance and Minimization Measures

The following measures would be implemented to reduce the potential for impacts to biological resources:

- Schedule ground-clearing activities prior to the initiation of nesting activity (April) or after fledging (August); or
- Conduct pre-construction surveys between February 15 and August 15 in potential raptor and bird nesting habitat to identify nest sites. If an active nest is observed within the vicinity of the Project site, contact California Department of Fish and Wildlife to establish the appropriate buffer around the nest tree. For identified raptors nests, a 350-foot buffer around the nest tree would be activated. Construction activities would be prohibited in the buffer zone until the young have fledged the nest.

4.3.5 Conclusion

The Project is not anticipated to result in significant impacts to biological resources.

4.4 CULTURAL RESOURCES

The following discussion provides the setting, regulatory setting, impact discussion, and avoidance and minimization measures for the 0.5 mile of new pipeline (Project site) within the City of Carson and does not address the 11.5-mile existing pipeline. Padre did not complete Native American consultation for this Project and assumes that the lead CEQA agency will handle any necessary consultation as outlined in Public Resources Code (PRC) § 21080.3.1.

4.4.1 Setting

The following summary of the prehistory of the Los Angeles Basin, which can be included within the broader, regional patterns of southern California prehistory, is based on Byrd and Raab (2007), which is in turn based upon Erlandson and Colten's (1991) division of the Late Holocene into Early, Middle and Late subdivisions.

During the Pleistocene Period (pre-9600 cal B.C.), California's first inhabitants were highly mobile bands of large game hunters who ranged across North America during the terminal phases of the last Ice Age (Fagan, 2003; Moratto, 1984; Wallace, 1978). When the last Ice Age began to wane around 10,000 to 8,000 cal. B.C., prehistoric populations sought to cope with the onset of warmer, drier conditions. Rivers and lakes that were once fed by the wetter climatic conditions of the Pleistocene began to shrink or vanish completely. These climatic changes necessitated shifts in subsistence strategy and settlement patterns, and many populations migrated to the coast (Byrd and Raab, 2007). Unfortunately, physical evidence of human occupation in southern California during this period remains scant.

People during the Early Holocene Period (c. 9600 cal B.C. – 5600 cal B.C.) began to adapt to marine environments and incorporated shellfish and saltwater fish into their diets. In this context, shellfish are interpreted as a dietary staple, supplemented by vegetal resources that

included several types of nuts and grasses. Hunting and fishing were also practiced, particularly within estuaries and bays (Byrd and Raab, 2007). Radiocarbon evidence shows occupation of the coastal region of Southern California occurred circa (ca.) 8000 and 7000 cal. B.C. (Byrd and Raab, 2007).

The Middle Holocene Period (5600 cal. B.C. – 1650 cal. B.C.) has been traditionally seen as a time of transition. Across much of central and Southern California, Millingstone cultures appeared around 6000 to 5000 cal. B.C. This adaptation focused on the collection and processing of small plant seeds such as acorn and chia, and the hunting of a variety of small and medium-sized mammals (Byrd and Raab, 2007). The mano and metate, long utilized for the processing of seeds, were gradually replaced with the mortar and pestle during this period. Typical reconstructions of Middle Holocene occupations on the mainland have emphasized sizeable semi-sedentary populations that were established around resource-rich coastal bays and estuaries (Byrd and Raab, 2007). In addition, evidence has emerged of geographically expansive trade networks and spheres of cultural interaction, linking Southern California with a vast region of the American West during the Middle Holocene (Byrd and Raab, 2007).

The generally accepted models for the Late Holocene Period (1650 cal. B.C. – cal. A.D. 1769) indicate that the period was a time of emergence for the cultural patterns and tribal groups that would later be observed by early Euro-American explorers (Byrd and Raab, 2007). Sometime after cal. A.D. 500, the bow and arrow appeared, replacing the throwing spear as the preferred instrument of hunting and warfare. In the interior regions, ceramics were adopted sometime after A.D. 1000. Although marine resources remained extremely important during the Late Holocene, major shifts took place in subsistence practices, settlement patterns, and the organization of labor. During this period, hunter-gatherers in Southern California focused increasingly on smaller resources that generally occurred in greater amounts (Byrd and Raab, 2007).

Late Holocene settlement patterns are characterized by comparatively large residential camps that were linked to numerous ephemeral satellite sites. Site types include major residential bases, residential camps, resource procurement areas, and limited activity sites. The smaller sites were non-randomly distributed short-term encampments, some of which were dedicated to specialized subsistence tasks (Byrd and Raab, 2007).

The Project site is located within the ethnographic territory of the *Tongva* people. Prior to contact with Europeans, Tongva lands encompassed the greater Los Angeles Basin and three of the Channel Islands (San Clemente, San Nicholas, and Santa Catalina). On the mainland, Tongva territory reached as far as Topanga Creek and the San Gabriel Mountains to the north, Lytle Creek to the east, and Aliso Creek in the south (Bean and Smith, 1978; Kroeber, 1925). The Tongva are at times referred to as Gabrielino or Fernandño, which are Spanish terms used to refer to indigenous persons who were baptized at or residing within Mission San Gabriel (Gabrieleno) and Mission San Fernando (Fernandño).

The Tongva are believed to have migrated into southern California from the Great Basin between 1,000 and 3,000 years ago and have been associated by other researchers with the phenomenon known as the “Takic Wedge” (Bean and Smith, 1978). Tongva societal organization was patrilineal and centered around non-localized clans in a typical, Takic pattern. The Tongva established large, permanent villages in the fertile lowlands along rivers and streams and along

the coast, with numerous, smaller settlements spread throughout their territory (Bean and Smith, 1978).

The Tongva subsistence economy was based on hunting and gathering. However, the richness and variety of ecological resources that were available to the Tongva enabled them to surpass many other indigenous groups in terms of population size and material wealth. Vegetal and faunal resources were bolstered even further by an extensive array of marine resources along the coast and offshore islands. Predominant food sources included acorns, chia seeds, roots and tubers, berries, yucca, deer, rabbit, waterfowl, reptiles, fish, shellfish, dolphin, and seal (Bean and Smith, 1978; Kroeber, 1925; McCawley, 1996). In addition, the Tongva's control of Santa Catalina Island, which contains a large source of high-quality soapstone or *steatite*, afforded them a pivotal role as crafters and distributors of an uncommon and sought-after material.

A typical Tongva house consisted of a domed, circular structure with thatching of tule, fern or carrizo. Some examples of Tongva houses and are said to have been sufficient to accommodate three or four families (Harrington, 1942; Johnston, 1962; Costanso, 1911). Other structures commonly found in villages included sweathouses, menstrual huts, and a ceremonial enclosure known as a *yuva'r*. The Tongva village closest to the Project site occupied an area near present-day 239th Street and Utility Street, and is referred to in ethnographic literature as *Suangna*, which means '*place of the skies*'. *Suangna* served as the political center for a cluster of smaller villages and its chief was the political leader for these associated villages in addition to his own (Bean and Smith, 1978).

The first European account of the area that would become the County of Los Angeles was by navigator Juan Rodriguez Cabrillo, who led a Spanish expedition along the California coast in 1542. When Cabrillo first arrived in San Pedro Bay, the Tongva campfires along the coastline are said to have been so numerous that he was inspired to name the area *Baya de los Fumos*, or "Bay of the Smokes". Spain's presence in the region would be intermittent for the next 200 years (Chartkoff and Chartkoff, 1984).

Gaspar de Portolá led the first land expedition in 1769, accompanied by Fray Junípero Serra, marking the beginning the establishment of California missions and subsequent European and Mexican occupation. The first of the missions to be established was Mission San Diego de Alcalá in 1769, followed by 20 others between 1769 and 1822. The missions nearest the Project site are Mission San Gabriel Arcangel, founded in 1771 and located approximately 16.7 miles northeast, and Mission San Fernando Rey de España, founded in 1797 and located approximately 34.3 miles northwest. On September 4, 1781, Alta California governor Felipe de Neve granted the first settlement in the region, Nuestra Señora La Reina de Los Angeles, or the Pueblo de Los Angeles, with a vast territory covering 28 square miles.

The Rancho and Mexican Periods (A.D. 1820 – 1850) were an era of extensive interior land grant development and exploration by American fur trappers west of the Sierra Nevada. In 1821, Mexico declared independence from Spain and a year later, California became a Mexican Territory. After the secularization of the missions in 1834, lands were gradually transferred to private ownership via a system of land grants (Hoover, 1990).

The Project site is located within lands encompassed by the former Rancho San Pedro, a land concession granted in 1784 by King Carlos III of Spain to Juan Jose Dominguez, a Spanish

soldier (Gillingham, 1961). An official land title was not granted until 1822, when the Mexican government “re-granted” 48,000 acres to Juan Jose’s nephew and heir, Cristobal Dominguez. Cristobal died soon after the Mexican validation of the rancho, and his three sons inherited the lands and constructed adobe residences for their families. In 1823, Manuel Dominguez, Cristobal’s eldest son, married Maria Engracia de Cota. Manuel would go on to lead a successful career in cattle-raising and later served in a variety of elected and appointed offices in Los Angeles.

Following the Bear Flag Revolt in 1846, John C. Frémont and his troops marched through the Santa Clara River Valley and crossed into the San Fernando Valley near the present alignment of the Sierra Highway (Impact Sciences, 2010). A minor military engagement during the Mexican-American War took place in an area adjacent to the San Pedro Rancho. U.S. Navy Captain William Mervine led a force of 285 American marines, sailors and bear flaggers occupied the Dominguez adobe (3.87 miles north of the Project site) on the night of October 6, 1846 (Bancroft, 1886; Bauer, 1974). Known as the Battle of Dominguez Rancho, the American force engaged a small Mexican militia led by Captain Jose Antonio Carrillo and General Jose Maria Flores. American casualties were light, and the fallen troops were later buried on Isla de los Muertos in San Pedro Bay (Bancroft, 1886). Hostilities between the American and Mexican troops ended with the signing of the Treaty of Cahuenga on January 13, 1847 (Walker, 1999). President Polk signed the Treaty of Guadalupe Hidalgo in 1848, marking the formal transfer of the territory to the United States. California was recognized as a state in September 1850.

With the discovery of gold in 1848 and the completion of the transcontinental railroad in 1869, thousands of settlers immigrated to California. The County of Los Angeles was established on February 18, 1850. Of the numerous ranchos extant in California at the start of the American Period, many were sold or otherwise acquired by American settlers and investors, with the clear majority being subdivided into agricultural parcels or towns.

Rancho San Pedro, was the very first to land grant win a patent from the United States. As required by the Land Act of 1851, a claim for Rancho San Pedro was filed with the Public Land Commission in 1852, and a patent for 43,119 acres was granted to Manuel Dominguez on December 18, 1858. Throughout this time, Los Angeles expanded as a center of trade and agriculture (Cleland, 1941, 1918; Guinn, 1915; Robinson, 1939; McWilliams, 1973). A formal postal service was established in 1851, followed by stagecoach and steamship lines connecting San Francisco and San Pedro Harbor with Los Angeles. That same year, the two roads leading from Los Angeles to San Pedro were officially designated as public highways.

During the late 1860s, several years of severe drought brought an end to large scale cattle-ranching in the area. To sustain the increased costs of ranching, many families resorted to heavy mortgages or loans from private backers with large cash reserves. Ultimately, many ranchos were sold or partitioned when the mortgages foreclosed. On the Dominguez Rancho, a switch was made to sheep. The sheep grazing had a profound effect on native vegetation, which had already been severely degraded by years of cattle grazing. Soon, the willows, alders and cottonwoods were gone, replaced with annual grasses and introduced species such as mustard.

To satisfy debts and various claims, Pedro Dominguez sold a large portion of his family’s rancho in 1867, which was then subdivided into what is now the City of Compton. The Los Angeles and San Pedro railroad was constructed in 1870 on land provided by Manuel Dominguez,

prompting a new era of land development and competing railroad companies (Gillingham, 1961; Guinn, 1911; Hoyt, 1953; Dumke, 1944). With the death of Don Manuel Dominguez in 1882, the Dominguez Rancho was resurveyed and distributed to his six daughters. A land dispute between the Dominguez and Sepulveda families, which had begun as early as 1817, evolved into lawsuits over the next several decades before finally being resolved in 1882 and the Rancho was partitioned into seventeen parcels. At this time, the Sepulveda family was awarded 31,629 acres known as Rancho de los Palos Verdes, which would later become the city of Palos Verdes Peninsula, as well as portions of the cities of Torrance and San Pedro.

At the turn of the century, the Carson area remained a dry and dusty land with little vegetation, a result of nearly a century of overgrazing. The Dominguez Water Company, a subsidiary of Dominguez Estates Company, formed in 1911 to support expanding agriculture and the proposed development of what would later become the city of Torrance. Over the next few decades, local industry continued to develop in the area that would later become the city of Carson, beginning with Shell Oil at Dominguez Hill, and the subsequent installation of utilities by Southern California Edison and Southern California Gas Company. Soon, a flourishing commercial district began to establish itself along Carson Street and Avalon Boulevard. By the time of the outbreak of World War II, virtually all the Carson City area was developed (Jerrills, 1972).

The postwar years were a time of rapid urbanization, with an emphasis on residential, commercial and 'clean' industrial development. Farming was phased out in all areas except Dominguez Hill, and dairies were replaced with tract housing and shopping centers. With the completion of the Harbor-San Diego Freeways and the commencement of large-scale landfill operations to free up more developable land in the Dominguez Slough area, the city began to assume its present-day configuration and the City of Carson was finally incorporated in 1968 (Jerrills, 1972).

4.4.2 Regulatory Setting

CEQA Statute and Guidelines include procedures for identifying, analyzing, and disclosing potential adverse impacts to historical resources, which include all resources listed in or formally determined eligible for the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), or local registers. CEQA further defines a "historical resource" as a resource that meets any of the following criteria:

- A resource listed in, or determined to be eligible for listing in, the NRHP or CRHR;
- A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the Public Resources Code, unless the preponderance of evidence demonstrates that it is not historically or culturally significant;
- A resource identified as significant (i.e., rated 1-5) in a historical resource survey meeting the requirements of Public Resource Code Section 5024.1(g) (Department of Parks and Recreation Form [DPR] 523), unless the preponderance of evidence demonstrates that it is not historically or culturally significant; or
- Any object, building, structure, site, area, place, record or manuscript, which a lead agency determines to be historically significant or significant in the architectural,

engineering, scientific, economic, agricultural, educational, social, political, military or cultural annals of California, provided the determination is supported by substantial evidence in light of the whole record. Generally, a resource is considered “historically significant” if it meets the criteria for listing on the CRHR (CEQA Guidelines Section 15064.5).

The CRHR is a listing of State of California resources that are significant within the context of California’s history, and includes all resources listed in or formally determined eligible for the NRHP. In addition, properties designated under municipal or county ordinances are also eligible for listing in the CRHR. A historic resource must be significant at the local, State, or national level under one or more of the following four criteria defined in the California Code of Regulations Title 14, Chapter 11.5, Section 4850:

- 1) It is associated with events or patterns of events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States (Criterion 1); or
- 2) It is associated with the lives of persons important to local, California, or national history (Criterion 2); or
- 3) It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values (Criterion 3); or
- 4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation (Criterion 4).

A cultural resource’s significance must be demonstrated under one of the CRHR criterion described above, and it must retain its historic integrity. Cultural resources integrity is determined using the CRHR’s seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The CRHR criteria are tied to CEQA, as any resource that meets the above criteria and retains its integrity is considered to be an historical resource under CEQA.

The Los Angeles County Board of Supervisors adopted the historic preservation ordinance on September 1, 2015. This ordinance is applicable only to the unincorporated territory of the county. The purpose of the historic preservation ordinance is to:

- Enhance and preserve the County's distinctive historic, architectural, and landscape characteristics that are part of the County's cultural, social, economic, political, and architectural history;
- Foster community pride in the beauty and noble accomplishments of the past as represented by the County's historic resources;
- Stabilize and improve property values in and around the County's historic resources, and enhance the aesthetic and visual character and environmental amenities of these historic resources;
- Recognize the County's historic resources as economic assets and encourage and promote the adaptive reuse of these historic resources;

- Further establish the County as a destination for tourists and as a desirable location for businesses; and to
- Specify significance criteria and procedures for the designation of landmarks and historic districts, and provide for the ongoing preservation and maintenance of these landmarks and historic districts.

The Historical Landmarks and Records Commission (HLRC) is an advisory body established to consider and recommend to the Board of Supervisors local historical landmarks defined to be worthy of registration by the State of California Department of Parks and Recreation, either as "California Historical Landmarks" or as "Points of Historical Interest" and may consider and comment for the Board on applications relating to the NRHP. Criteria for designation, including significance and access and provision for maintenance, shall be as specified in state law, including the California Public Resources Code, or in regulations and interpretations of the State Historical Resources Commission.

4.4.3 Impact Discussion

On September 4, 2018, Padre ordered an expedited records search from the South Central Coastal Information Center of the California Historical Resources Information System (SCCIC-CHRIS) at California State University, Fullerton. The SCCIC, an affiliate of the State of California Office of Historic Preservation, is the official state repository of archaeological and historic records and reports for Los Angeles County.

The records search sought to identify previously recorded cultural resources and the survey coverage of prior investigations within a 0.25-mile radius of the Project site. Sources examined during the records search included maps pinpointing cultural resources locations, survey coverage maps, and site record and report files. The State Historic Property Data Files, National Register of Historic Places, National Register of Determined Eligible Properties, California Points of Historic Interest, and the California Office of Historic Preservation Archaeological Determinations of Eligibility also were analyzed.

The records search did not identify any previously recorded archaeological sites within the Project site; however, four archaeological sites are recorded within 0.25-mile of the Project site (Table 4.4-1).

Specifically, the records search located CA-LAN-2682, a protohistoric habitation site and cemetery approximately 618 feet west of the western terminus of the Project site. CA-LAN-2682 was encountered in September 1998 during "subsurface excavation for replacement of existing underground utility lines" within the ARCO Refinery (Bonner, 2000). A summary report states that "when hand excavations were complete in early November 1998, all visible human remains had been removed to the satisfaction of both the archaeological team and the Native American monitors. However, future excavation may expose additional human burials. It is possible that both burial levels may extend further in any or all directions from the portion that was exposed" (Bonner, 2000).

Table 4.4-1. Previously Recorded Archaeological Sites within 0.25-mile of Project Site

Site No.	Author, Year	Description
CA-LAN-2682	McDowell and Bonner, 1998	Protohistoric habitation site and cemetery
CA-LAN-2942H	Paniagua, 2000	Wooden posts
P-19-186868	Martin and Self, 2003	KMEP Carson Terminal
P-19-187085	Elder, 1989	Mojave Road

Source: SCCIC, 2018.

On October 10, 2018, Padre Archaeologist Matt Seger surveyed the proposed 0.5-mile pipeline corridor for archaeological resources. The route was surveyed within 5 meters from the centerline on each transect; the existing valves, valve boxes, pump station facilities, and the canal along the proposed route limited the survey in instances to transecting directly within the proposed centerline. The route was surveyed intensively in its entirety and special attention was paid to areas of exposed soils. The west-east segment of the line contained almost no ground visibility being almost entirely composed of gravel landscaping ballast and asphalt. In contrast, the north-south segment along the canal had ground visibility of approximately 75 to 80 percent and consisted of exposed and extremely disturbed silty loam. Padre did not observe any archaeological resources during the survey. Refer to Appendix D – Phase I Archaeological Survey Report.

4.4.4 Avoidance and Minimization Measures

Based on the survey results the proposed Project will not impact any recorded prehistoric or historic resources. Therefore, no further archaeological investigation of the Project’s potential impact areas is warranted prior to Project implementation. However, given the proximity to CA-LAN-2682 there is a possibility that unknown buried prehistoric resources could occur within the Project site. Therefore, the following recommendations are provided to reduce any potential significant impacts to buried prehistoric deposits to a less than significant level:

- A professional archaeologist and Native American monitor should be retained to monitor all Project related earth disturbances within the first 100 feet of the underground portion of the Project site. The area recommended for monitoring would start approximately 400 feet southeast of the intersection with South Alameda Street and where the proposed pipeline would transition from aboveground to underground. The area would continue east for 100 feet into the Air Products Carson Hydrogen Facility.
- At the commencement of Project construction, the archaeological monitor shall give all workers associated with earth-disturbing procedures an orientation regarding the probability of exposing cultural resources and directions as to what steps are to be taken if a find is encountered.
- The archaeologist shall have the authority to temporarily halt or redirect Project construction in the event that potentially significant cultural resources are exposed.

Based on monitoring observations and the actual extent of Project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with Air Products and the lead CEQA Agency.

- If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. The lead CEQA Agency and Air Products shall be notified of any such find.

4.4.5 Conclusion

The Project is not anticipated to result in significant impacts to cultural resources.

4.5 GEOLOGY AND SOILS

4.5.1 Setting

Topography. The pipeline alignment traverses from Southwest to Northeast through the urban setting of unincorporated Los Angeles County and the cities of Carson, Los Angeles, Long Beach, Bellflower, Lakewood, and Paramount. According to the U.S. Geological Survey (USGS) South Gate and Long Beach, California Quadrangle topographic maps, the Project site has elevations that range from a low of 15 feet above mean sea level (amsl) at the start of the pipeline route near Carson, ranging to 80 feet amsl at the highest elevation near the end of the pipeline route corridor in Paramount. Therefore, the Project site experiences approximately 65-foot change in elevation along the length of the proposed pipeline.

Geologic Structure. The Project site is located within the Los Angeles (L.A.) Basin, part of the Peninsular Ranges Geomorphic Province in Southern California, which is characterized by northwest-trending mountains and valleys extending north from the southern tip of Baja California to the Transverse Ranges. The Peninsular Ranges stretch approximately 895 miles: approximately 150 miles in California and approximately 746 miles south of the United States – Mexico border, creating the peninsula of Baja California. The Peninsular Ranges province is bounded on the north by the Transverse Ranges, on the east by the Colorado Desert Geomorphic Province, and on the west by the continental shelf (Harden, 2004).

Geologically, the Peninsular Ranges province consists of a series of northwest trending mountain ranges that are separated by long valleys. The L.A. Basin is one of these valleys that was formed by faults that branch off the San Andreas fault (CGS, 2015). The majority of the Peninsular Ranges are composed of Mesozoic plutonic rocks and are part of a great chain of granitic rocks that extends north from Alaska to the tip of Baja California, Mexico in the south.

The proposed pipeline is located in the L.A. Basin, one of the largest valleys in the Peninsular Ranges. Like other Southern California basins, the L.A. Basin was formed by crust that was tectonically depressed in the center through the process of down-buckling and pushed up on all sides to create a low-lying bowl or basin surrounded by mountain ranges and hills that were tectonically uplifted. The L.A. Basin is crisscrossed by east-west trending reverse faults and folds that intersect northwest-trending right-lateral faults of the San Andreas fault system,

including the Newport-Inglewood fault zone. These faults divide the L.A. Basin into four clearly defined blocks, placing the proposed pipeline route in the Long Beach-Wilmington block (Harden, 2004).

Site Geology. The majority of the Project site is composed of Late Quaternary young alluvium and alluvial fan sedimentary deposits. Sedimentary deposits in the deepest parts of the L.A. Basin extend to depths of more than 30,000 feet in the vicinity of the confluence of the L.A. and Rio Hondo Rivers, near the City of South Gate, approximately four miles north of Paramount (CGS, 2016 and Yerkes et al, 1965). The site geology is shown on Figures 3a - Geology Map and 3b Key to Geology Map.

Holocene and late Pleistocene alluvial deposits are poorly consolidated; poorly sorted; and permeable flood-plain deposits of soft clay, silt, and loose to moderately dense sand and silty sand. This sedimentary unit ranges from slightly consolidated to cemented and can be slightly to moderately desiccated. The upper surfaces of this unit are capped by slight to moderately developed pedogenic soil profiles (CGS, 2016). The pipeline encounters the surface exposure of Qya₂ in some or all of: PPC Line 12 Segments 1 and 2; PPC Line 4, Segments 3, 4, 5, 6, 7, and 8; and the new pipeline segment.

Undivided Holocene and late Pleistocene alluvial fan and valley deposits composed of poorly consolidated and poorly sorted clay, sand, gravel, and cobble. The Qfy deposits typically have coarse-fine clast ratios. Upper surfaces of this unit are capped with slight to moderately developed pedogenic soil profiles. Young alluvial fan deposits are primarily exposed along some or all of the proposed pipeline along Line 12, crude 244, Segment 2; Line 4, Segments 3, 4, 7, and 8; and the new pipeline segment. Refer to Figure 4.5-1 – Geology Map.

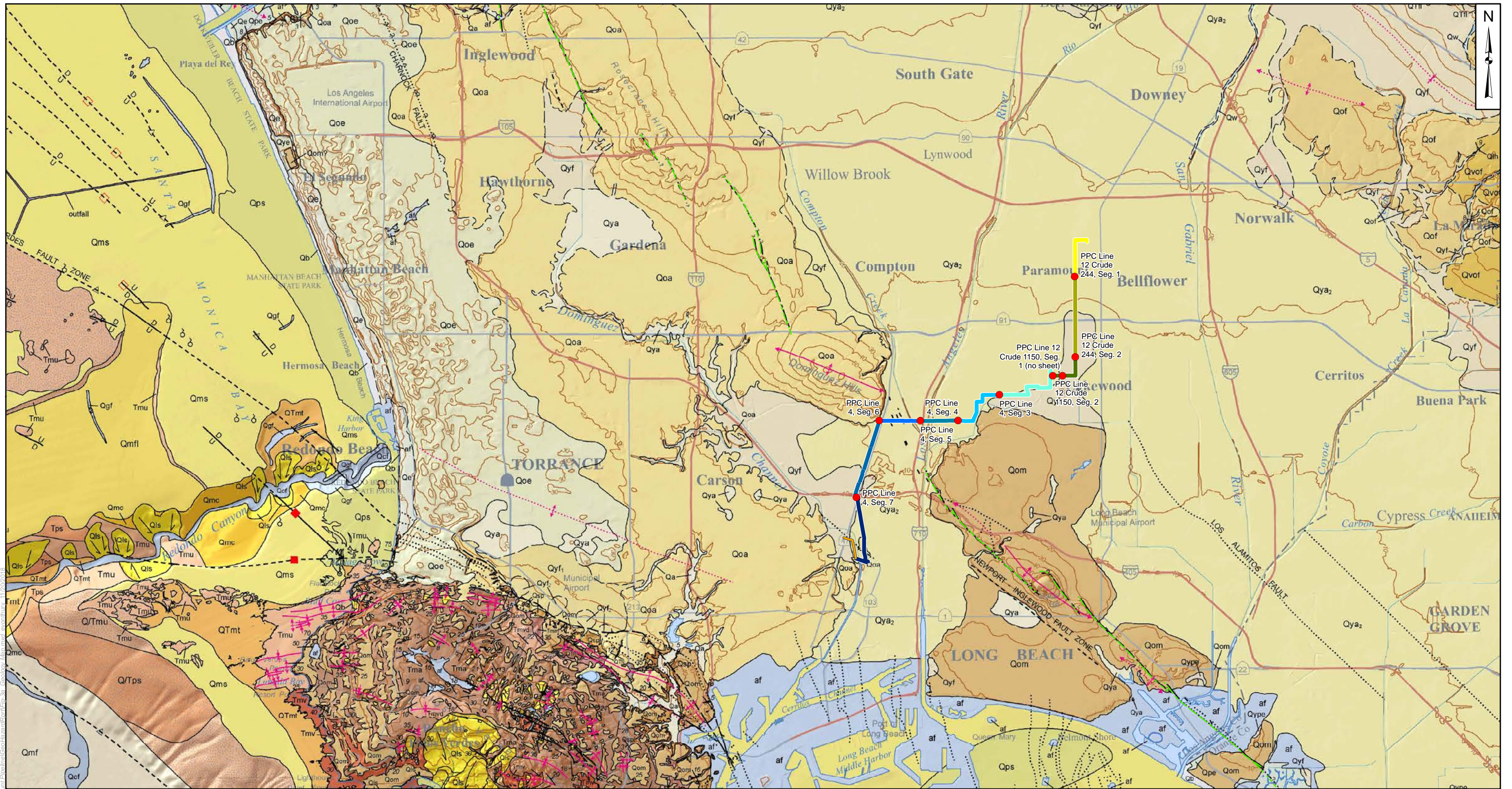
Soils. Soil data for the Project area was obtained from the USDA Natural Resources Conservation Services (NRCS) soil survey website (NRCS, 2018). The proposed pipeline extends across six soils series units shown in Table 4.5-1 below. Refer to Figure 4.5-2 – Soil Survey Map.

Table 4.5-1. Soil Units Along Pipeline Alignment	
Soil Unit No.	Soil Unit Name
1000	Urban Land-Hueneme, Drained-San Emigdio Complex
1001	Urban Land-Metz-Pico Complex
1005	Urban Land-Biscailuz-Hueneme
1132	Urban Land-Thums-Windfetch Complex
1202	Urban Land
1261	Urban Land, Frequently Flooded

Faults. The Project area is located in Seismic Zone 4, which has the greatest earthquake potential in the state of California. The Newport-Inglewood and San Andreas fault zones have the greatest potential to impact the Project site based on their proximity to the proposed alignment, potential maximum ground acceleration, and these faults are considered to be active or potentially active. A brief description of each of these faults is provided below based on information obtained from California Division of Mining and Geology (CDMG, 1996).

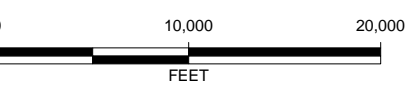
The Newport-Inglewood Fault zone is an active fault system that has an estimated overall length of about 46.6 miles (75 kilometers [km]). The fault system is defined northwest and southeast of the proposed pipeline near PPC Line 4, Segment 6. The Newport-Inglewood Fault has an upperbound earthquake of 6.0 to 7.4, average slip rate of 0.6 mm/yr, and an unknown recurrence interval.

The San Andreas fault system is perhaps the most significant fault zone in California, because it has been the source of several major earthquakes during recent historic times. Most notably, the 1857 Fort Tejon, 1906 San Francisco, and 1989 Loma Prieta earthquakes. The San Andreas Fault is believed to have an estimated average slip rate of 20 - 35 mm/yr. The Mw earthquake is 6.8 - 8.0, and a recurrence interval of 25 - 550 years, depending on the segment of the fault that ruptures. Refer to Figure 4.5-3 – Regional Fault and Geologic Hazard Map.



LEGEND:

Newport-Inglewood-Rose Canyon fault zone	Existing Pipeline Segment	PPC Line 4, Seg. 3	PPC Line 4, Seg. 6
Newport-Inglewood-Rose Canyon fault zone	PPC Line 12 Crude 1150, Seg. 2	PPC Line 4, Seg. 4	PPC Line 4, Seg. 7
Segment Marker	PPC Line 12 Crude 244, Seg. 1	PPC Line 4, Seg. 5	PPC Line 4, Seg. 8
New Pipeline Segment	PPC Line 12 Crude 244, Seg. 2		



Sources: CGS (2016), Geologic map of the Long Beach 30' x 60' Quadrangle, California, Version 2.0: http://ftp.consrv.ca.gov/pub/dmg/rmp/Prelim_geo_pdf/Long_Beach_100k_v2.0_Map.pdf
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Abbreviation: Seg. = Segment
 Notes: 1. Geologic Map Key on Figure 3b.
 2. This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

GEOLOGY MAP

FIGURE 4.5-1a

ABBREVIATED EXPLANATION
Approximate stratigraphic relationships only: see accompanying pamphlet for more detailed

		OFFSHORE REGION	
CENOZOIC	QUATERNARY	af Artificial fill (only selected larger fills shown)	Qms Unconsolidated shelf sediment
		Qa Alluvium	Qmfl Unconsolidated flank sediment
		Qw Wash deposits	Qmb Unconsolidated basin sediment
		Qb Beach deposits	Qmr Unconsolidated ridge sediment
		Qe Eolian deposits	Qmc Unconsolidated canyon sediment
		Qpe Paralic estuarine deposits	Qgf Gully fill
		Qya Young alluvium, undivided	Qcf Canyon fill
		Qya ₃ Young alluvium, Unit 3	Qol Overbank levee deposits
		Qya ₂ Young alluvium, Unit 2	Qmf Fan deposits
		Qya ₁ Young alluvium, Unit 1	
CENOZOIC	PLEISTOCENE	Qyf Young alluvial fan deposits, undivided	Qls Landslide deposits (only selected larger landslides shown)
		Qyf ₂ Young alluvial fan deposits, Unit 2	Qoa Old alluvium, undivided
		Qyf ₁ Young alluvial fan deposits, Unit 1	Qof Old alluvial fan deposits, undivided
		Qye Young eolian deposits	Qoe Old eolian deposits
		Qype Young paralic estuarine deposits	Qom Old shallow marine deposits on wave-cut surface
		Qls Landslide deposits (only selected larger landslides shown)	Qvoa Very old alluvium, undivided
		Qoa Old alluvium, undivided	Qvof Very old alluvial fan deposits, undivided
		Qof Old alluvial fan deposits, undivided	Qlh La Habra Formation
		Qoe Old eolian deposits	San Pedro Formation
		Qom Old shallow marine deposits on wave-cut surface	Qsp San Pedro Formation, undivided
CENOZOIC	PLOCENE	Qvoa Very old alluvium, undivided	Qps Pleistocene sedimentary deposits, undivided
		Qvof Very old alluvial fan deposits, undivided	
		Qlh La Habra Formation	
		San Pedro Formation	
		Qsp San Pedro Formation, undivided	
		Qspt Timms Point Silt Member	
		QspL Lomita Marl Member	
		QTI Inglewood Formation	
		Fernando Formation	
		Upper Member	QTmt Plio-Pleistocene terrace deposits
CENOZOIC	TERTIARY	Lower Member	Tps Pliocene sedimentary rocks, undivided*
		QTflc QTflc = conglomerate	
		Puente Formation	
		Sycamore Canyon Member	
		Tpnsc Tpnsc = conglomerate	
		Yorba Member	
		Soquel Member	Tmu Tertiary sedimentary and volcanic rocks, undivided*
		La Vida Member	Tmp Miocene plutonic and hypabyssal rocks, undivided*
		Monterey Formation	
		Malaga Mudstone Member	Tmm Miocene sedimentary rocks, undivided*
MESOZOIC	CRETACEOUS JURASSIC	Tmm Malaga Mudstone Member	Tmmv Miocene volcanic rocks*
		Tmvd Valmonte Diatomite Member	
		Tmv Volcanic rocks within the Monterey Formation	
		Tma Altamira Shale Member	
		Catalina Schist	ms Metamorphic rocks of pre- Late Cretaceous age*


* Q/ = Map unit overlain by more than 3 meters of unconsolidated Quaternary sediment (i.e. Q/Tmms).

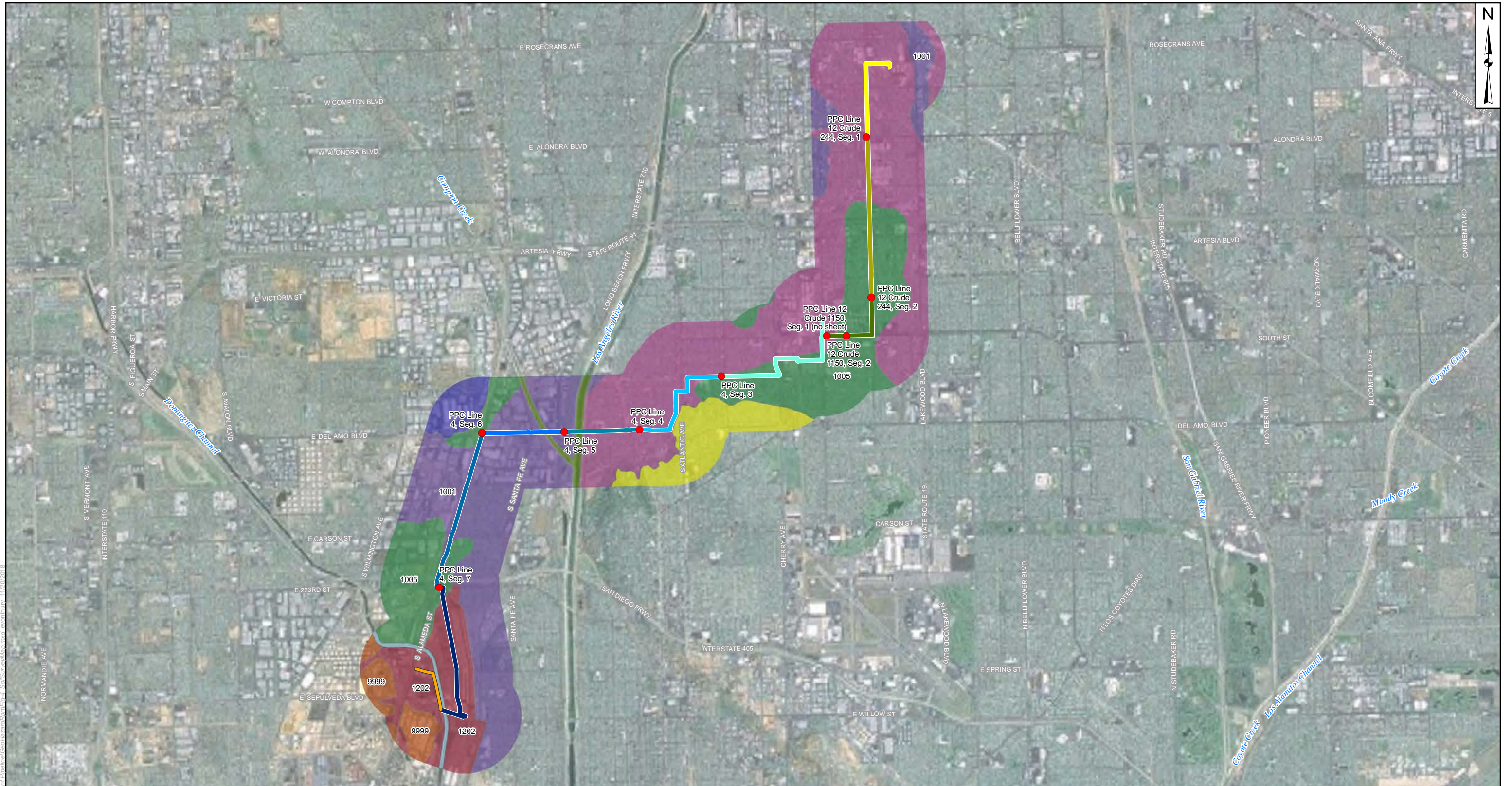
SYMBOL EXPLANATION

- Contact between map units - Accuracy of location ranges from well located to inferred; dotted where concealed. All offshore contacts are considered approximately located
- Fault - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed; queried where continuation, identity, or existence is uncertain. Where age was determined in offshore area, age symbol is shown astride fault and relative offset is shown by U on upthrown side and D on downthrown side (relative or apparent). Age of fault is indicated as follows:
 - cuts strata of Holocene age
 - cuts strata of Pleistocene age
 - ▣ cuts strata of Quaternary age
 - △ cuts strata of Pliocene age
 - ▲ cuts Miocene or older strata
- Anticline - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
- Synclinal Fold - Solid where accurately located; long dash where approximately located; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
- Strike and dip of sedimentary beds. Number indicates dip angle in degrees:
 - ⊕ Horizontal bedding.
 - 35° Inclined bedding.
 - + Vertical bedding.
- Strike and dip of vertical metamorphic foliation
- Arrows on landslides indicate direction of movement. Headscarp hachured were mapped
- Creep (offshore) - Arrow indicates apparent direction of sediment movement
- Oil and/or gas seep

Note: All items in legend may not appear on map.

Sources: CGS (2016), Geologic map of the Long Beach 30' x 60' Quadrangle, California, Version 2.0: http://ftp.consrv.ca.gov/pub/dmg/rmp/Prelim_geo_pdt/Long_Beach_100k_v2.0_Map.pdf

	PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA		FIGURE 4.5-1b
	PROJECT NUMBER: 1802-2611	DATE: November 2018	



LEGEND:

- Segment Marker
- New Pipeline Segment
- Existing Pipeline Segment
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 12 Crude 1150, Seg. 1 (no sheet)
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

Soil Map Unit (NRCS, 2018)

- Urban Land-Hueneme, Drained-San Emigdio Complex (1000), 0 to 2 Percent Slopes
- Urban Land-Metz-Pico Complex (1001), 0 to 2 Percent Slopes
- Urban Land-Biscailuz-Hueneme, Drained Complex (1005), 0 to 2 Percent Slopes
- Urban Land-Typic Xerorthents, Terraced-Windfetch Complex (1125), 2 to 9 Percent Slopes
- Urban Land-Thums-Windfetch Complex (1132), 0 to 5 Percent Slopes
- Urban Land (1202), 0 to 2 Percent Slopes
- Urban Land, Frequently Flooded (1261), 0 to 5 Percent Slopes
- Urban Land (9999), Industrial
- Water (W)

MAP EXTENT: LOS ANGELES COUNTY

0 2,500 5,000 10,000
FEET

Source: ESRI, 2013; NRCS, 2016.
Coordinate System: NAD83 State Planes California, Zone V, ft
Abbreviation: NRCS = National Resources Conservation Service
Seg. = Segment
Notes: This map was created for informational and display purposes only.

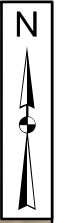
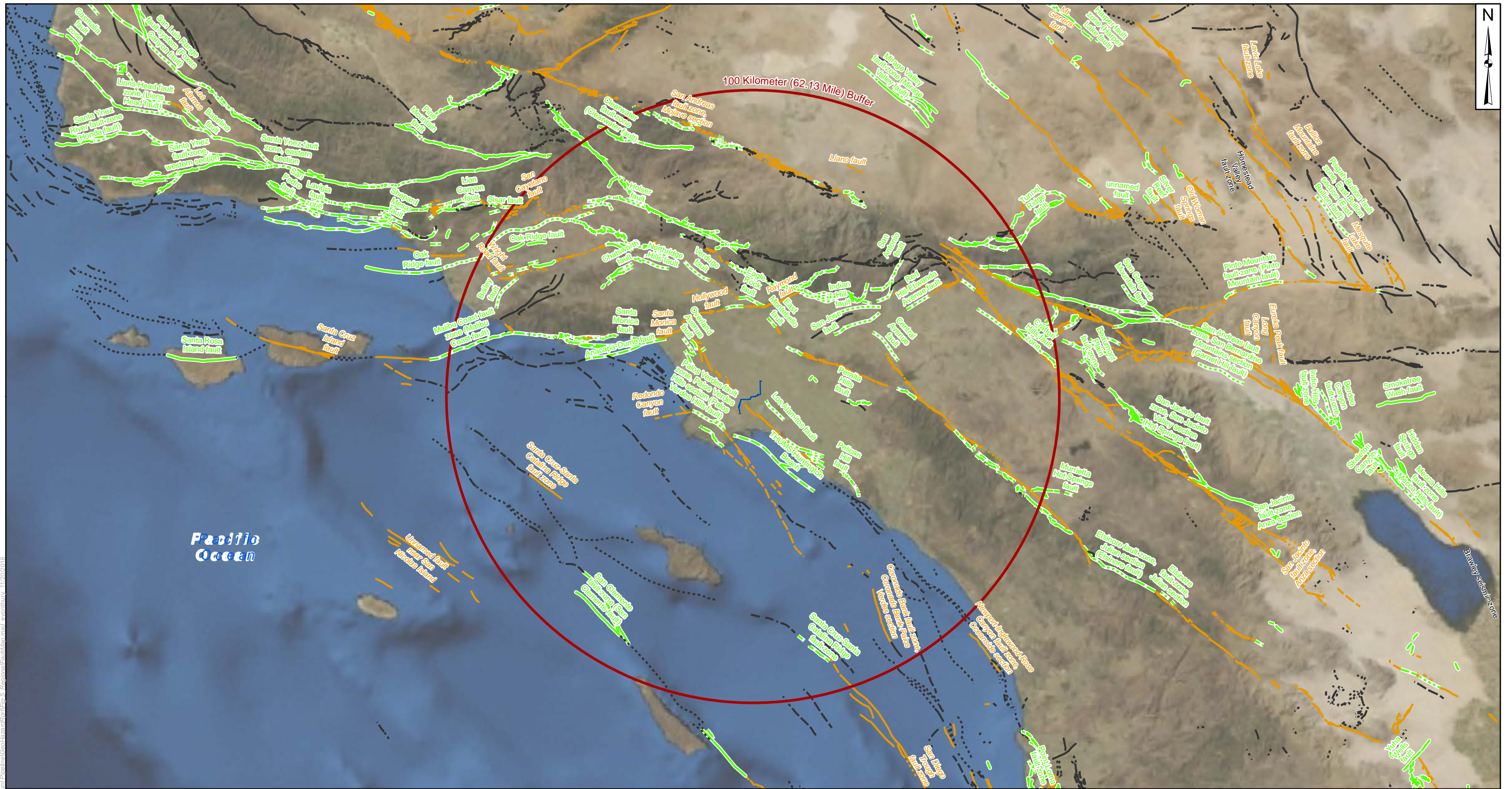
padre
associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT
LOS ANGELES COUNTY, CA

PROJECT NUMBER: 1802-2611 DATE: November 2018

SOIL SURVEY MAP

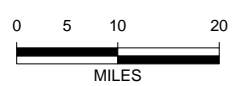
FIGURE 4.5-2



LEGEND:

100 Kilometer (62.13 Mile) Buffer	Quaternary Fault Age (Years)	<130,000, Inferred	<15,000, Inferred
New Pipeline Segment	<1,600,000, Inferred	<130,000, Moderately Constrained	<15,000, Moderately Constrained
Existing Pipeline Segment	<1,600,000, Moderately Constrained	<130,000, Well Constrained	<15,000, Well Constrained
	<1,600,000, Well Constrained		

MAP EXTENT:



Source: Copyright © 2013 ESRI, i-cubed, GeoEye
 California Geologic Survey (CGS, 2018) Zones of Required Investigation
 (<http://maps.conservation.ca.gov/cgs/informationwarehouse/>)
 Coordinate System: NAD83 State Planes California, Zone V, feet
 Abbreviation: Seg = Segment
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

REGIONAL FAULT AND GEOLOGIC HAZARD MAP

FIGURE 4.5-3

4.5.2 Significance Criteria

For the purposes of this environmental evaluation, a project is determined to have significant geologic impacts if any of the following conditions are present:

- The Project would expose people or structures to potential adverse effects, including the risk of loss, injury or death involving rupture of an earthquake fault as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning map issued by the State Geologist, strong seismic ground shaking, or seismic related ground failure including liquefaction, lateral spreading and landsliding.
- Geologic processes such as landslides could be triggered by construction activities or by alteration of topography.
- Alteration of topography resulting in increased erosion or deposition.

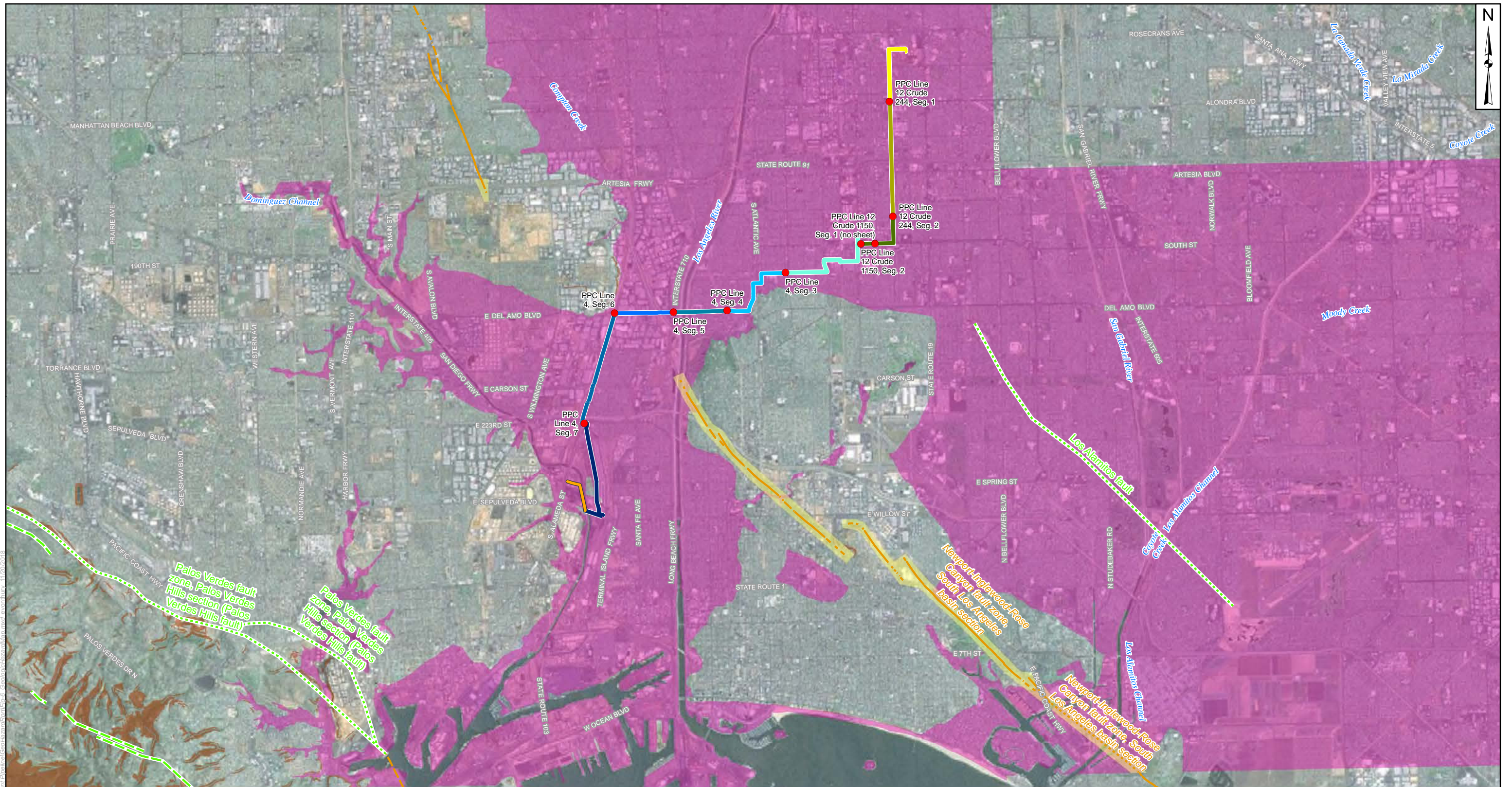
4.5.3 Impact Discussion

The following text describes the potential geologic and seismic impacts resulting from the proposed Project. Landsliding, dam inundation, tsunamis, seiches, and naturally-occurring asbestos are not anticipated to be significant hazards for the proposed Project. Refer to Section 4.7 – Hydrology and Water Quality, for a discussion of erosion and sedimentation control measures to be implemented as part of the proposed Project.

Groundshaking and Liquefaction. The pipeline would be constructed to specifications more stringent than those required by the U.S. Department of Transportation (USDOT) Office of Pipeline Safety (OPS) to ensure safety. Based on available Alquist-Priolo earthquake hazards maps, the nearest active fault is the Newport-Inglewood fault, located one mile north of the Project site. The Project site lies outside of the Alquist-Priolo Earthquake Hazard zone for the Newport-Inglewood fault. A geohazards report has been prepared for the Project (Appendix E). The Project design would include recommended measures from the geohazards report to minimize the potential damage to the pipeline from ground shaking or liquefaction. Refer to Figure 4.5-4 – Geologic Hazard Map.

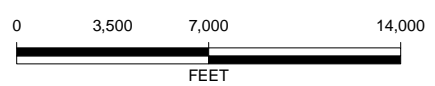
Expansive Soils. Potential impacts to the onshore portion of the pipeline due to expansive soils would also be minimized through implementation of recommended geotechnical engineering measures as described above.

Unstable Slopes. The Project site does not contain slopes over five percent. Therefore, no impacts resulting from unstable slopes are expected to be associated with the proposed Project.



LEGEND:

● Segment Marker	PPC Line 12 Crude 244, Seg. 1	PPC Line 4, Seg. 5	Quaternary Fault Age (Years) <130,000, Inferred <15,000, Inferred	Earthquake Fault Zone of Required Investigation (CGS, 2018)	MAP EXTENT: LOS ANGELES COUNTY
— New Pipeline Segment	PPC Line 12 Crude 244, Seg. 2	PPC Line 4, Seg. 6	— <1,600,000, Inferred	..... <130,000, Moderately Constrained	..... <15,000, Moderately Constrained	Seismic Hazard Liquefaction Zone of Required Study (CGS, 2018)
Existing Pipeline Segment	PPC Line 4, Seg. 3	PPC Line 4, Seg. 7	- - - <1,600,000, Moderately Constrained	..... <130,000, Well Constrained	..... <15,000, Well Constrained	Seismic Hazard Landslide Zone of Required Investigation (CGS, 2018)
PPC Line 12 Crude 1150, Seg. 2	PPC Line 4, Seg. 4	PPC Line 4, Seg. 8	.... <1,600,000, Well Constrained			



Source: Copyright © 2013 ESRI, i-cubed, GeoEye
 California Geologic Survey (CGS, 2018) Zones of Required Investigation
 (<http://maps.conservation.ca.gov/cgs/informationwarehouse/>)
 Coordinate System: NAD83 State Planes California, Zone V, feet
 Abbreviation: Seg = Segment
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

GEOLOGIC HAZARD MAP **FIGURE 4.5-4**

4.5.4 Avoidance and Minimization Measures

Measures incorporated into the Project design to reduce potential impacts:

- Engineering analysis for Project design would include recommended geotechnical engineering measures for ground shaking, liquefaction hazards, and expansive soils as necessary.

4.5.5 Conclusion

The Project is not anticipated to result in significant impacts to geology and soils.

4.6 HAZARDS AND HAZARDOUS MATERIALS

4.6.1 Setting

Hazards. The Project site does not lie within a high fire hazard area. The Project site does not lie within the airport influence area of nearby airports, which is located greater than two miles from the Project site. Several schools are located within one quarter mile of the Project site, including the following:

Table 4.6-1. Schools within the Project Vicinity

School	Address	Distance
Lindbergh Middle School	1022 E. Market Street, Long Beach	Adjacent
Buena Vista High School	3717 Michelson Street, Lakewood	800 feet
Cpt. Raymond Collins Elementary School	6125 Coke Avenue, Long Beach	Adjacent
Maj. Lynn Mokler Elementary School	8571 Flower Street, Paramount	Adjacent
Alondra Middle School	16200 Downey Avenue, Paramount	Adjacent
Jefferson Elementary School	8600 Jefferson Street, Paramount	Adjacent
Paramount High School	14429 Downey Avenue, Paramount	Adjacent

Hazardous Materials/Waste. Padre Associates, Inc. completed a Phase I Environmental Site Assessment (ESA) for the portion of the Project site with new pipeline construction (included as Appendix G). The purpose of the Phase I ESA was to determine if on-site or adjacent uses to the Project site could have resulted in the release of petroleum or any hazardous substances into the environment that could affect the Project.

The proposed pipeline alignment would cross industrial land within the current APCI Carson Facility and Tesoro/Marathon pipeline corridor. The proposed pipeline would be placed in

an aboveground pipe rack within the majority of the APCI property and buried within the pipeline corridor area.

On the basis of a review of historical topographic maps and historical aerial photographs, Padre concluded that the APCI Carson Facility has been utilized for industrial uses since the 1960s. The pipeline corridor has been utilized as a railroad siding and later a pipeline corridor since at least the 1960s. Petroleum hydrocarbon-containing soils have been previously identified by APCI during past pipeline repair-related excavation activities within the Tesoro/Marathon pipeline corridor property.

Padre concluded that the shallow soils along the proposed pipeline route have been impacted by petroleum hydrocarbons and potentially additional contaminants, which represent a Recognized Environmental Condition at the Project site.

4.6.2 Regulatory Setting

USDOT provides oversight for the country's gas pipeline transportation. Their responsibilities are promulgated under Title 49, United States Code (USC) Chapter 601. The Pipeline and Hazardous Materials Safety Administration (PHMSA), Office of Pipeline Safety (OPS), administers the national regulatory program to ensure the safe transportation of gas and other hazardous materials by pipeline.

Two statutes provide the framework for the Federal pipeline safety program. The Natural Gas Pipeline Safety Act of 1968 as amended (NGPSA) authorizes the USDOT to regulate pipeline transportation of natural (flammable, toxic, or corrosive) gas and other gases as well as the transportation and storage of liquefied natural gas (LNG). Similarly, the Hazardous Liquid Pipeline Safety Act of 1979 as amended (HLPESA) authorizes the USDOT to regulate pipeline transportation of hazardous liquids (crude oil, petroleum products, anhydrous ammonia, and carbon dioxide). Both of these Acts have been recodified as 49 USC Chapter 601.

The OPS shares portions of this responsibility with state agency partners and others at the federal, state, and local level. The State of California is certified under 49 USC Subtitle VIII, Chapter 601, §60105. The State has the authority to regulate intrastate natural and other gas pipeline facilities. The Public Utilities Commission is the agency authorized to oversee intrastate gas pipeline facilities, similar to those proposed by Air Products. (The California State Fire Marshal has jurisdiction for hazardous liquid pipelines.)

The federal pipeline regulations are published in Title 49 of the Code of Federal Regulations (CFR), Parts 190 through 199. 49 CFR 192 specifically addresses natural and other gas pipelines. Many of these pipeline regulations are written as performance standards. These regulations set the level of safety to be attained and allow the pipeline operator to use various technologies to achieve the desired result.

The proposed pipeline would be designed, constructed, operated, and maintained in accordance with 49 CFR 192. Since these are intrastate facilities, the Public Utilities Commission would have the responsibility for enforcing the federal and state requirements. 49 CFR 192 is comprised of fifteen (15) subparts, which are summarized below:

- **Subpart A, General** – This subpart provides definitions, a description of the class locations used within the regulations, documents incorporated into the regulation by reference, conversion of service requirements, and other items of a general nature.
- **Subpart B, Materials** – This subpart provides the requirements for the selection and qualification of pipe and other pipeline components. Generally, it covers the manufacture, marking, and transportation of steel, plastic, and copper pipe used in gas pipelines and distribution systems.
- **Subpart C, Pipe Design** – This subpart covers the design (primarily minimum wall thickness determination) for steel, plastic, and copper pipe.
- **Subpart D, Design of Pipeline Components** – This subpart provides the minimum requirements for the design and qualification of various components (e.g. valves, flanges, fittings, passage of internal inspection devices, taps, fabricated components, branch connections, extruded outlets, supports and anchors, compressor stations, vaults, overpressure protection, pressure regulators and relief devices, instrumentation and controls, etc.
- **Subpart E, Welding of Steel Pipelines** – This subpart provides the minimum requirements for welding procedures, welder qualification, inspection and repair/replacement of welds in steel pipeline systems.
- **Subpart F, Joining of Materials Other Than By Welding** – This subpart covers the requirements for joining, personnel and procedure qualification, and inspection of cast iron, ductile iron, copper, and plastic pipe joints.
- **Subpart G, General Construction Requirements for Transmission Lines and Mains** – This subpart provides the minimum construction requirements, including, but not limited to: inspection of materials, pipe repairs, bends and elbows, protection from hazards, installation in the ditch, installation in casings, underground clearances from other substructures, and minimum depth of cover.
- **Subpart H, Customer Meters, Service Regulators and Service Lines** – This subpart prescribes the minimum requirements for these components.
- **Subpart I, Requirements for Corrosion Control** – This subpart provides the minimum requirements for cathodic protection systems, required inspections and monitoring, remedial measures, and records maintenance.
- **Subpart J, Testing Requirements** – This subpart prescribes the minimum leak and strength test requirements.
- **Subpart K, Uprating** – This subpart provides the minimum requirements for increasing the maximum allowable operating pressure.
- **Subpart L, Operations** – This subpart prescribes the minimum requirements for pipeline operation, including: procedure manuals, change in class locations, damage prevention programs, emergency plans, public awareness programs, failure investigations, maximum allowable operating pressures, odorization, tapping, and purging.
- **Subpart M, Maintenance** – This subpart prescribes the minimum requirements for pipeline maintenance, including: line patrols, leakage surveys, line markers, record keeping, repair procedures and testing, compressor station pressure relief device

inspection and testing, compressor station storage of combustible materials, compressor station gas detection, inspection and testing of pressure limiting and regulating devices, valve maintenance, prevention of ignition, etc.

- **Subpart N, Qualification of Pipeline Personnel** – This subpart prescribes the minimum requirements for operator qualification of individuals performing covered tasks on a pipeline facility.
- **Subpart O, Pipeline Integrity Management** – This subpart was promulgated on December 15, 2003. It requires operators to implement pipeline integrity management programs on the gas pipeline systems.

In general, the requirements of the federal regulations become more stringent as the human population density increases. To this end, 49 CFR 192 defines area classifications, based on population density in the vicinity of the pipeline and specifies more rigorous safety requirements for more heavily populated areas. The class location is an area that extends 220 yards on either side of the centerline of any continuous 1-mile length of pipeline. The four area classifications are defined as follows:

- **Class 1** - Location with 10 or fewer buildings intended for human occupancy.
- **Class 2** - Location with more than 10 but less than 46 buildings intended for human occupancy.
- **Class 3** - Location with 46 or more buildings intended for human occupancy or where the pipeline lies within 100 yards of a building, or small well-defined outside area occupied by 20 or more people on at least five days a week for 10 weeks in any 12-month.
- **Class 4** - Location where buildings with four or more stories aboveground are prevalent.

Pipeline facilities located within class locations representing more populated areas are required to have a more conservative design. For example, pipelines constructed on land in Class 1 locations must be installed with a minimum depth of cover of 30 inches in normal soil and 18 inches in consolidated rock. Class 2, 3, and 4 locations, as well as drainage ditches of public roads and railroad crossings, require a minimum cover of 36 inches in normal soil and 24 inches in consolidated rock.

Class locations also specify the maximum distance to a sectionalizing block valve (e.g., 10.0 miles in Class 1, 7.5 miles in Class 2, 4.0 miles in Class 3, and 2.5 miles in Class 4 locations). Pipe wall thickness and pipeline design pressures, hydrostatic test pressures, maximum allowable operating pressure, inspection and testing of welds, and frequency of pipeline patrols and leak surveys must also conform to higher standards in more populated areas.

Pipeline Integrity Management

49 CFR 192 Subpart O, Pipeline Integrity Management grew out of a series of pipeline incidents with severe consequences. This Subpart requires operators of gas pipeline systems in High Consequence Areas (HCA's) to significantly increase their minimum required maintenance and inspection efforts. For example, all lines located within HCA's must be analyzed by conducting a baseline risk assessment. In general, the integrity of the lines must also be

evaluated using an internal inspection device or a direct assessment, as prescribed in the regulation.

Pipeline Integrity Management Regulations

As noted earlier, 49 CFR 192, Subpart O, Pipeline Integrity Management, is relatively new and was developed in response to recent major pipeline incidents. In 2002, Congress passed an act to strengthen the pipeline safety laws. The Pipeline Safety Improvement Act of 2002 (HR 3609) was passed by Congress on November 15, 2002, and signed into law by the President in December 2002. As of December 17, 2004, gas transmission operators of pipelines in high consequence areas (HCA's) were required to develop and follow a written integrity management program that contained all the elements prescribed in 49 CFR 192.911 and addressed the risks on each covered transmission pipeline segment.

The USDOT (68 Federal Register 69778, 69 Federal Register 18228, and 69 Federal Register 29903) defines HCA's as they relate to the different class zones, potential impact circles, or areas containing an identified site as defined in 49 CFR 192.903. The OPS published a series of rules from August 6, 2002 to May 26, 2004 (69 Federal Register 69817 and 29904), that define HCA's where a gas pipeline accident could do considerable harm to people and their property. This definition satisfies, in part, the Congressional mandate in 49 USC 60109 for the OPS to prescribe standards that establish criteria for identifying each gas pipeline facility in a high-density population area.

The HCA's may be defined in one of two ways. (Both methods are prescribed by 49 CFR 192.903.) The first includes:

- current Class 3 and 4 locations;
- any area in Class 1 or 2 locations where the potential impact radius is greater than 660 feet (200 meters) and the area within a potential impact circle contains 20 or more buildings intended for human occupancy; or
- any area in Class 1 or 2 locations where the potential impact circle includes an "identified site".

In the second method, an HCA includes any area within a potential impact circle that contains:

- 20 or more buildings intended for human occupancy; or
- an "identified site".

"Identified sites" include areas such as beaches, playgrounds, recreational facilities, camp grounds, outdoor theaters, stadiums, recreational areas, religious facilities, and other areas where high concentrations of the public may gather periodically as defined by 49 CFR 192.903.

The "potential impact radius" is calculated as the product of 0.69 and the square root of the maximum allowable operating pressure of the pipeline (in psig), multiplied by the pipeline diameter (in inches) squared. ($R = 0.69 \cdot (\text{MAOP} \cdot d^2)^{0.5}$)

The potential impact circle is a circle with a radius equal to the potential impact radius.

Once a pipeline operator has determined the HCA's on its pipeline(s), it must apply the elements of its integrity management program to those segments of the pipeline within HCA's. The pipeline integrity management rule for HCA's requires inspection of the entire pipeline within HCA's every seven years.

Overview of the 49 CFR 199, Drug Testing Requirements

Operators of natural gas pipeline system are required to comply with the drug testing requirements of this regulation. The regulation requires operators to maintain an anti-drug plan, provide pre-employment employee testing, conduct post-accident drug testing, and perform random testing such that half of the employee pool is tested each twelve month period. All employees that perform operating, maintenance, or emergency response functions are subject to these requirements. Employees who fail or refuse a drug test may not be used in these functions unless they completed a rehabilitation program and have met other requirements.

This intrastate pipeline facility under the jurisdiction of the CPUC, as a result of the agency's certification by the OPS.

4.6.3 Significance Thresholds

For the purposes of this assessment, a significant hazards/risk of upset impact is assumed to occur if the proposed Project results in any of the following conditions:

- Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials;
- Create a significant hazard to the public or the environment through the reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment;
- Emit hazardous emissions or handle hazardous or acutely hazardous materials within one-quarter mile of an existing or proposed school;
- Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment;
- 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 for people residing or working in the Project area;
- For a Project within the vicinity of a private airstrip, would the Project result in the safety hazard for people residing or working in the Project area.
- Impair the implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; or
- Expose people or structures to a significant risk or loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.

4.6.4 Impact Discussion

Hazards. The Project site is located in an urbanized area and no wildland fire hazard is present. Therefore, no significant fire hazard impacts are anticipated during construction of the proposed Project.

The proposed Project would not conflict with the adopted airport land use plan for the any nearby airports. The Project would not interfere with emergency evacuation plans.

A quantitative pipeline risk assessment (QRA) has been prepared by EDM Services, Inc. to assess the likelihood and consequences of unintentional pipeline releases from the proposed pipeline. This document, included as Appendix F, Identified that the operation of the proposed pipeline Project will not result in an unacceptable risk to the public.

Hazardous Materials/Waste. Padre Associates, Inc., completed Phase I and II environmental site assessments for the portion of the proposed new pipeline segment. Padre's reports are included as Appendix G. Padre concluded that soils containing concentrations of lead in excess of California Title 22 thresholds (total or soluble) are present along the proposed pipeline alignment along approximately 1,100 linear feet of the proposed pipeline alignment. Additionally, petroleum hydrocarbon-containing soil at concentrations in excess of 1,000 mg/kg will likely be encountered along the 500 linear feet of the remaining pipeline alignment along the Dominguez Channel.

Soils containing lead in excess of California Title 22 thresholds will require special handling by HAZWOPER-trained workers and disposal at a licensed Class I hazardous waste facility. TPH-containing soil will require off-site disposal at a licensed disposal/recycling facility.

Non-hazardous construction-related wastes would be hauled to a local sanitary landfill. The used hydrostatic test water would most likely be transported via the proposed pipeline to the World Energy Facility for treatment and discharge.

Refueling of construction equipment would take place along the right-of-way. Absorbent material would be used to contain and absorb any spills and emergency containment.

Pipeline Safety Measures. As presented in the Project description, the proposed Project would include system operation safety measures to minimize the likelihood and consequences of unintentional releases from the pipeline.

4.6.5 Avoidance and Minimization Measures

Measures incorporated into the Project design to reduce potential impacts.

- Equipment refueling would be conducted away from waterway areas.
- Hazardous materials utilized for Project construction would be stored in their original containers within secure staging areas or storage containers.
- Spill containment and cleanup materials would be stored on-site for clean-up of spills during refueling or servicing of equipment.
- .
- A Contaminated Materials Management Plan (CMMP) will be prepared and implemented during the course of the construction activities planned at the Project

site. The CMMP will include maps illustrating areas of known soil contamination. The CMMP will also include the methods for identification of contaminated materials, and requirements for removal and disposal of contaminated materials generated during pipeline construction activities.

- A site-specific Health and Safety Plan will be developed for the protection of workers and the community during the handling of contaminated materials.

4.6.6 Conclusion

The project is not anticipated to result in significant impacts with implementation of the proposed avoidance and minimization measures.

4.7 HYDROLOGY AND WATER QUALITY

4.7.1 Setting

The proposed Project would cross three bodies of water; the Dominguez Channel in Carson, the Los Angeles River in Long Beach, and Compton Creek in Long Beach. The Dominguez Channel Watershed begins in the City of Hawthorne and discharges into Los Angeles Harbor. The watershed covers approximately 70,000 acres in the Los Angeles Basin. The watershed area is over 90% developed land with 61% impervious surfaces. The channel is tidally influenced and was dredged and channelized for flood control purposes. In the Project area, the channel has concrete sides and a natural bottom (City of Los Angeles Stormwater Program, N.D.). The Los Angeles River is the longest river in the region at 55 miles long. The river was channelized for the purpose of flood control beginning in 1938 by the Army Corps of Engineers. The majority of surrounding land uses are developed, and the river serves as the drainage for impervious surfaces throughout the Los Angeles basin. In the Project area, the channel is concrete lined and surrounded by industrial and residential areas (Water Boards, Region 4). Compton Creek is a tributary to the Los Angeles River and its main beneficial use is as wildlife habitat. Because of the surrounding impervious surfaces, it is a receiving body for stormwater runoff. It is mainly encased in concrete for flood control purposes. The section in the area of the Project has a natural bottom and rip rap banks.

4.7.2 Regulatory Setting

City of Carson General Plan- Open Space and Conservation Element

OSC-IM-2.2: Implement the requirement of the National Pollutant Discharge Elimination System (NPDES) to improve the quality of stormwater in the City.

4.7.3 Impact Discussion

There are potential impacts from stormwater runoff during construction activities within the Carson Facility and along the segment of new pipeline construction into the Dominguez Channel. For this reason, a Stormwater Pollution Prevention Plan (SWPPP) will be prepared and implemented for the construction activities at the Air Products Carson Facility. There are not expected to be significant impacts related to stormwater runoff as a result of construction on North Paramount Boulevard for the pipeline connection.

The pipeline crossing would utilize existing pipes within existing pipe bridges. The cradles for these existing pipe bridge across the Los Angeles River (under West Del Amo Boulevard) have been deemed inadequate and would be replaced for the Project. Construction vehicles would drive onto the paved channel and lift equipment up to the pipe bridge in order to replace the cradles. There is not expected to be any impact to water quality as a result of these construction activities.

There would be no impacts to hydrology or water quality during operation of the proposed pipeline.

4.7.4 Avoidance and Minimization Measures

- A SWPPP will be prepared for construction activities associated with the proposed Project. The SWPPP will aid in the determination of best management practices (BMPs) to prevent any pollution into the water bodies crossed by the Project site. All BMPs will be implemented to the extent feasible.

4.7.5 Conclusion

There is potential for impacts to hydrology and water quality from construction related stormwater runoff in the Dominguez Channel and the Los Angeles River. A SWPPP will be prepared and implemented in order to offset the impacts of the Project. There will be no operational impacts of the Project on hydrology and water quality.

4.8 NOISE

4.8.1 Setting

Noise is defined as sounds or series of sounds that are disruption, objectionable, or intrusive to daily life. Noise is a special concern in the presence of sensitive receptors (residences, schools, churches, and hospitals). Impact on sensitive receptors is determined based on the duration and time period of noise events. For example, noise is more disruptive at night than during the day. Noise indices have been developed to quantify noise impacts. The Community Noise Level Equivalent (CNEL) and the Day-Night Average Level (DNL or Ldn) are commonly used indices. They are time-weighted average values based on the equivalent sound level (Leq), which is a constant sound level that equals the same amount of acoustic energy as actual time-varying sound over a period of time. The CNEL is computed by combining appropriately weighted hourly Leqs over a 24-hour period. Noise levels between the hours of 10:00 p.m. and 7:00 a.m. are penalized by ten decibels (dB), and evening noise levels between the hours of 7:00 p.m. and 10:00 p.m. are penalized five dB under the CNEL. The Ldn penalizes nighttime noise levels, but not evening levels. The two indices are generally considered equivalent.

In general, the CNEL may be thought of qualitatively as an accumulation of the noise associated with individual events occurring throughout a 24-hour period. The noise of each individual event is accounted for in a separate, discrete measurement that integrates the changing sound level over time as, for example, when an aircraft approaches, flies overhead, then continues off into the distance. These integrated sound levels for individual operations are referred to as Sound Exposure Levels (SELs). The accumulation of the SELs from each individual operation during a 24-hour period determines the CNEL for the day. Table 4.8-1 lists some

common noises and their associated measured noise level at the source, and serves as a reference for comparing projected noise estimates for proposed activities that are anticipated to create the most noise.

Table 4.8-1. Common Noise Levels

Sounds	dBA
Audile Whisper	30
Average Office	50
Conversation	60
Restaurant	70
Garbage Disposal	80
Lawn Mower	93
Semi Truck	98
Motorcycle	104
Discomfort Threshold	115
Siren	120
Pain Threshold	135
Pistol	160

The areas of construction associated with the Project are located in industrial areas with no associated sensitive receptors.

4.8.2 Regulatory Setting

The City of Carson’s General Plan has adopted the federal Noise and Land Compatibility Matrix. Noise ranging from 50-70 dB is considered acceptable for industrial and manufacturing land uses. 70-75 dB is considered conditionally acceptable. The area of Long Beach that will experience construction noise is in District 3, which is zoned primarily industrial and is not to exceed 65 dB, per City of Long Beach Municipal Code.

4.8.3 Impact Discussion

The main impacts from noise associated with this Project are associated with the above-ground construction. The Project would create short-term noise sources during the construction as a result of the operation of construction equipment for the construction of new pipeline at the Air Products' Carson Facility and for the pipeline connection in Long Beach. In Carson, construction would consist of trenching techniques to install the pipeline. Sources of noise would include construction equipment, and vehicles for transporting materials and construction workers to and from the site.

Due to the linear nature of the pipeline, the disturbance corridor would typically be confined to an area approximately 40 to 50 feet in width and the half mile of new construction in Carson. Pipeline installation would generally consist of trenching, spoil handling, pipeline installation, and backfilling. The timeline of construction in Carson would be approximately 20 weeks. The pipeline would be brought to the site near to the construction time and would be staged along the alignment to be ready for placing. Construction activities in Long Beach would be confined to a smaller area around the connection site with the same disturbance corridor width of 40-50 feet with a timeline of eight weeks for construction. There are no sensitive receptors within 500 feet of any sensitive receptors including churches, schools, and residences.

Noise created as a result of the operational portion of the pipeline is expected to be limited to the routine pipeline maintenance activities and inspections. This noise would be minimal and only occur in areas of existing industrial operations with no nearby sensitive receptors. The addition of routine maintenance noises is not expected to have significant impacts from noise.

4.8.4 Avoidance and Minimization Measures

The following minimization measure will be implemented to reduce construction activity-related noise.

- Equipment engine covers shall be in place and mufflers shall be in good working condition.

4.8.5 Conclusion

There will be short-term impacts from noise as a result of the Project. The impacts are mainly from the above-ground construction phases of the Project. The construction will occur in industrial areas with no sensitive receptors within 500 feet. Therefore, no significant noise impacts will result from the implementation of the proposed Project.

4.9 PUBLIC SERVICES

4.9.1 Setting

Fire Protection. The Los Angeles County Fire Department (LACoFD) provides fire protection and emergency services for the Project alignment, including all six cities and Los Angeles County. The City of Long Beach is protected by the Los Angeles County Fire Department as well as the City of Long Beach Fire Department. LACoFD is trained to respond to hazardous material spills and injuries. The closest stations to the Project in each city are:

- City of Carson: LACoFD Station 127, 2049 E 223rd St

- City of Los Angeles: LACoFD Station 127, 2049 E 223rd St
- City of Long Beach: Long Beach Fire Dept Station 11, 160 E Market St
- City of Lakewood: LACoFD Station 45, 4020 Candlewood St
- City of Bellflower: LACoFD Station 45, 4020 Candlewood St
- City of Paramount: LACoFD Station 31, 7521 Somerset Blvd
- County of Los Angeles: LACoFD Station 10, 1860 E Del Amo Blvd

Police Protection. Police protection within the cities included in this Project is provided by the Los Angeles Police Department (LAPD), the Long Beach Police Department (LBPD), the LA County Sherriff, and California Highway Patrol (CHP). The LAPDs jurisdiction covers the Project site in Carson, Los Angeles, Lakewood, Bellflower and Paramount. The LBPD covers the Project site areas in Long Beach.

Schools. A total of four school districts encompass the 12-mile-long Project alignment. The districts and the cities they include are:

- Los Angeles Unified School District (LAUSD)- Los Angeles and Carson
- Bellflower Unified School District (BUSD)- Bellflower and Lakewood
- Paramount Unified School District- Paramount and Lakewood
- Long Beach Unified School District (LBUSD)- Long Beach and Lakewood

Several schools are located within one quarter mile of the Project site, including the following:

Table 4.9-1. Schools within the Project Vicinity

School	Address	Distance
Lindbergh Middle School	1022 E. Market Street, Long Beach	Adjacent
Buena Vista High School	3717 Michelson Street, Lakewood	800 feet
Cpt. Raymond Collins Elementary School	6125 Coke Avenue, Long Beach	Adjacent
Maj. Lynn Mokler Elementary School	8571 Flower Street, Paramount	Adjacent
Alondra Middle School	16200 Downey Avenue, Paramount	Adjacent
Jefferson Elementary School	8600 Jefferson Street, Paramount	Adjacent

Table 4.9-1. Schools within the Project Vicinity

School	Address	Distance
Paramount High School	14429 Downey Avenue, Paramount	Adjacent

4.9.2 Impact Discussion

Construction of the proposed Project would not result in closures of main access routes along the Project alignment. Emergency response providers near the proposed route would be notified in advance of exact construction locations, road closure schedules, and potential alternate routes. Traffic safety procedures would be implemented to avoid disruption to fire protection or police protection services during construction of the pipeline.

Vandalism, theft of construction materials and equipment, and burglary would be of potential concern during the construction of the proposed Project. Police protection services for the Project alignment would be provided by the local police departments. Emergency response times from these stations depend on where patrol vehicles are in relation to an emergency call at the facility.

Operation of the pipeline would not result in long-term impacts to public services.

4.9.3 Avoidance and Minimization Measures

The following measures are proposed to reduce potential impacts:

- Emergency response providers near the proposed route would be notified in advance of exact construction locations, road closure schedules, and potential alternate routes.
- Traffic safety procedures would be implemented to avoid disruption to fire protection or police protection services during construction of the pipeline.

4.9.4 Conclusion

The proposed Project involves construction of a hydrogen gas pipeline that would not result in an increased demand for public services in the long-term. No new commercial or residential development would occur as a result of this Project, nor would there be an increase in population in the Project area. No schools would be affected by the construction or operation of the proposed Project.

4.10 TRANSPORTATION AND TRAFFIC

4.10.1 Setting

The proposed pipeline route crosses the City of Carson, the City of Los Angeles, Los Angeles County, the City of Long Beach, the City of Bellflower, and the City of Paramount. The existing pipeline route follows major arterials including Alameda Street, West Del Amo Boulevard, Market Street, South Street, and Downey Avenue.

The City of Carson has established truck routes that include designated streets and parking areas intended for large trucks. Sepulveda Boulevard and Alameda Street are both listed as approved truck routes.

Air Products' Carson Facility is the initiation point for the proposed pipeline and one of the sites of construction. It is accessed by East Sepulveda Boulevard and South Alameda Street. Above ground construction has the potential to impact traffic on East Sepulveda Boulevard. Refer to Table 4.10-1 for existing traffic data.

A new pipeline connection would be made in the City of Long Beach on a side alley on North Paramount Boulevard near the intersection with South Street. Above ground construction has the potential to impact traffic conditions on North Paramount Boulevard and South Street.

Table 4.10-1. Traffic Data for Above Ground Construction Sites on Pipeline Route

City	Segment	ADT	LOS AM	LOS PM
Carson	Sepulveda Boulevard- Alameda and Intermodal	23,473	A	A
Long Beach	South Street and North Paramount Boulevard	28,000	A	B
LOS = Level of Service				

Source: Long Beach General Plan 2013, Carson Traffic Engineering Daily Traffic Volumes 2014

4.10.2 Regulatory Setting

Carson General Plan- Transportation and Infrastructure Element

- Goal TI-1 Minimize impacts associated with truck traffic through the City, as well as at truck parking locations.
- Policy TI-1.5 Require that all new construction or reconstruction of streets or corridors that are designated as truck routes, accommodate projected truck volumes and weights.
- Policy TI-2.1 Require that new projects not cause the Level of Service for intersections to drop more than one level if it is at Level A, B, or C, and not drop at all if it is at D or below, except when necessary to achieve substantial City development goals.

4.10.3 Impact Discussion

Above ground construction for the Project is limited to roadways in the City of Carson and the City of Long Beach. Carson construction would occur on privately owned land at the Carson Facility and connect to existing pipeline on East Sepulveda Boulevard on the West side of the Dominguez channel. There would be no construction in the right-of-way for the Dominguez channel due to the use of existing pipeline and pipe bridge. Aboveground construction in the City

of Long Beach would occur on the West side of North Paramount Boulevard near the intersection with South Street.

Pipeline construction may result in temporary traffic delays adjacent to or within roadways because temporary lane closures and traffic control may be necessary. Adequate access, signage, site distances, road capacity, and emergency access would be maintained throughout Project construction. A route specific traffic and circulation plan would be prepared and implemented for the Project. Based on the existing traffic volumes at the construction locations and the scope of the Project activities, impacts to traffic and circulation are expected to be less than significant.

Once installation of the pipeline is complete, there would be no operational impacts to transportation and circulation, except for any needed repairs or maintenance on the pipeline, which is anticipated to be infrequent. The following avoidance and minimization measures would address traffic impacts during construction and operational activities.

4.10.4 Avoidance and Minimization Measures

- Traffic control measures would be implemented in accordance with the Manual of Uniform Traffic Control Devices. These measures include appropriate visual traffic control including signs, traffic cones, and flaggers. These measures are intended to reduce hazards to both workers and motorists during construction.
- Warning signs would be installed prior to construction to notify through traffic of trucks entering and leaving the site and to allow commuters to plan for alternative routes.
- Alternative vehicle and pedestrian access would be established.
- Construction would be minimized during holidays when feasible.

4.10.5 Conclusion

The two areas of aboveground construction for the proposed Project operate at low traffic volumes and a high level of service under existing conditions. There would be temporary impacts to traffic and circulation as a result of the Project. However, there would be minimal and infrequent long-term operational impacts from the Project.

4.11 UTILITIES AND SERVICE SYSTEMS

4.11.1 Setting

The Project route will initiate in the City of Carson and terminate in the City of Paramount. The Project route will also traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower.

The utilities and service systems analysis describes the provision of utility and other services within the Project area, including water, sewer, electricity, natural gas, telephone, and solid waste collection and disposal services. The Project area includes six different cities and the County of Los Angeles. Table 4.11-1 provides information about the utilities and services offered for each city and County of Los Angeles.

Table 4.11-1. Local Utility and Service Providers

Utility or Service	Provider
City of Carson	
Natural Gas	Southern California Gas Company
Electricity	Southern California Edison
Water	Golden State Water
Wastewater	California Water Service Company
Solid Waste	Waste Management
Telephone/Internet	AT&T Broadband/Time Warner Cable
City of Los Angeles	
Natural Gas	Southern California Gas Company
Electricity	Southern California Edison
Water	Los Angeles Department of Water and Power (LADWP)
Wastewater	LADWP
Solid Waste	LA Sanitation
Telephone/Internet	AT&T/Charter Communications/Charter Spectrum/Verizon
City of Long Beach	
Natural Gas	Long Beach Gas and Electric Company
Electricity	Southern California Edison
Water	Long Beach Water Department
Wastewater	Long Beach Water Department
Solid Waste	Public Works Environmental Services Bureau (ESB)
Telephone/Internet	AT&T/Charter
City of Lakewood	
Natural Gas	The Gas Company
Electricity	Southern California Edison
Water	City of Lakewood/Golden State Water
Wastewater	City of Lakewood/Golden State Water
Solid Waste	City of Lakewood
Telephone/Internet	AT&T/Frontier Communications
City of Bellflower	
Natural Gas	Southern California Gas Company
Electricity	Southern California Edison
Water	Bellflower Somerset Mutual/Bellflower Municipal Water System
Wastewater	Bellflower Somerset Mutual/Bellflower Municipal Water System
Solid Waste	CR&R Inc. of Stanton

Table 4.11-1. Local Utility and Service Providers

Utility or Service	Provider
Telephone/Internet	AT&T/Frontier Communications
City of Paramount	
Natural Gas	Southern California Gas Company
Electricity	Southern California Edison
Water	City of Paramount Water Division
Wastewater	City of Paramount Water Division
Solid Waste	CalMet Service Inc
Telephone/Internet	Time Warner Cable/AT&T
County of Los Angeles	
Natural Gas	Southern California Gas Company
Electricity	Southern California Edison
Water	Golden State Water
Wastewater	California Water Service Company
Solid Waste	Waste Management
Telephone/Internet	AT&T Broadband/Time Warner Cable

The proposed Project would require potable water to be purchased from the local water district for dust suppression and hydrostatic testing. Water collection and disposal services would be purchased from the local water authority and obtained via hydrant.

The proposed pipeline is composed of a series of existing pipelines and 0.5 miles of new pipeline. The portion of new pipe will be installed in the City of Carson alongside the Dominguez Channel. There is potential for utility lines to be near or alongside the proposed pipe location including: sewer lines, storm drains, water lines, telephone, natural gas, and electrical lines. Project right-of-way alignment sheets would show the locations of utilities and pipelines within the vicinity of the proposed pipeline corridor.

4.11.2 Impact Discussion

For the duration of the Project, utility service providers should not be impacted by the construction activities in the area. Construction crews would use portable chemical toilets. Wastes from portable chemical toilets would be transported by a contracted service to a permitted wastewater treatment facility. Trash containers with lids would be provided for daily refuse from construction workers. Waste generated from construction of the pipeline and associated facilities would be in the form of short sections of pipe discarded during the pipe welding process, waste from welding and coating, as well as boxes and crates used in the shipment of materials.

Other construction wastes could include asphalt, concrete and rubble from trenching paved areas. The non-hazardous waste would be hauled to a sanitary landfill or recycler. Metallics would be taken to a local recycling center and non-metallics would be hauled to the nearest waste disposal area. The hazardous waste would be sent to a permitted treatment or disposal facility.

Waste water from hydrostatic testing and dust suppression will be provided by the local water company.

4.11.3 Avoidance and Minimization Measures

The following measures are proposed to reduce potential impacts:

- **Underground Service Alert.** The contractor would notify Underground Service Alert at least 48 hours prior to excavation so that utilities can be marked and avoided during construction.
- During operation, pipeline inspections would be conducted routinely in accordance with State and Federal regulations.

4.11.4 Conclusion

The proposed Project would not result in significant impacts to utilities or service systems. Certain measures will be incorporated into the Project design to reduce the potential impacts in the area. The contractor will notify USA at least 48 hours prior to excavation to allow utilities to be marked and avoided during work.

Measures will be taken by the contractor to protect existing facilities and to minimize the potential impact to existing substructures. They include: coordination with owners of existing substructures, use of pre-qualified experienced construction contractor, use of electronic line locators, Underground Service Alert, pre-excavation meetings, extensive use of potholing, and non-mechanical digging in the immediate vicinity of known substructures.

4.12 ENVIRONMENTAL RESOURCE AREAS ELIMINATED FROM FURTHER CONSIDERATION

The following Section addresses the environmental resources that have been eliminated from further consideration and do not warrant a detailed discussion based upon the nature of the Project and/or its location.

4.12.1 Agricultural Resources

The Project route would initiate in the City of Carson and terminate in the City of Paramount. The Project route would also traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower. The Project route primarily extends within established utility routes utilizing private corridors and public roadways and is completely outside of any land zoned for agricultural use. Therefore, the Project would not result in an impact to agricultural resources and does not warrant further discussion.

4.12.2 Land Use and Planning

The Project route would initiate in the City of Carson and terminate in the City of Paramount and would also traverse the City of Los Angeles, County of Los Angeles, City of Long Beach, City of Lakewood, and City of Bellflower. The zoning for the Project route includes the following:

- City of Carson

- Heavy Manufacturing with Design Overlay (MH-D)
- Light Manufacturing with Design Overlay (ML-D)
- Heavy Manufacturing (MH)
- City of Los Angeles
 - Heavy Manufacturing with Design Overlay (MH-D)
- County of Los Angeles
 - Heavy Manufacturing
 - Open Space
- City of Long Beach
 - Public Right-of-Way (PR)
 - Institutional (I)
 - Single Family Residential, standard lot (R-1-N)
 - Community Commercial Automobile-Oriented (CCA)
 - Community Commercial (CCN)
 - Moderate-density Multiple Residential (R-4-R)
 - Two-family Residential, standard lot (R-2-N)
 - Low-density Multi-family Residential, small lot (R-3-S)
 - Medium Industrial (MI)
 - Light Industrial (IL)
 - General Industrial (IG)
 - Planned Development Residential (PDMF)
 - Multi-family Residential (MFR)
 - General Commercial (C-4)
- City of Bellflower
 - Medium Density Residential (R-2)
 - General Commercial (CG)
 - Specific Plan (SP)
 - Open Space (OS)
 - Multiple Residential (R-3)
- City of Paramount
 - Medium Density Residential (R-2)

- Multifamily Residential (R-M)
- Light Manufacturing (M-1)
- General Commercial (C-3)
- Single Family Residential (R-1)
- Commercial Manufacturing (C-M)
- Planned Development with Performance Standards (PD-PS)
- Heavy Manufacturing (M-2)

No significant impacts to land use would result from the construction and operation of the Project and does not warrant further discussion.

4.12.3 Energy and Mineral Resources

The Project route primarily extends within established utility routes utilizing private corridors and public roadways. Project construction and operations would require minimal use of energy. The Project would not result in a substantial increase in energy demand or cause the need for development of new energy sources. Therefore, the Project would not result in an impact to energy and mineral resources and does not warrant further discussion.

4.12.4 Population and Housing

The Project route is within urban areas that are already developed. Once complete, the Project would transport hydrogen gas to the World Energy Paramount Facility, which would be used to produce renewable transportation fuels. The Project would not lead to population growth or the need for additional housing. Therefore, the Project would not result in an impact to population and housing and does not warrant further discussion.

4.12.5 Recreation

The Project route primarily extends within established utility routes utilizing private corridors and public roadways. The Project route is not designated for recreational use. The Project route crosses the Los Angeles River Bicycle Path along East Del Amo Boulevard within the City of Carson; however, there will be no impact to the bicycle path. No impacts to recreation along the Project route or surrounding community are anticipated from the construction and operation of the Project and does not warrant further discussion.

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APPENDIX A

SITE PHOTOGRAPHS

APPENDIX B

ENGINEERING INFORMATION

APPENDIX C

AIR QUALITY IMPACT ASSESSMENT

APPENDIX D

PHASE I ARCHAEOLOGICAL SURVEY REPORT

APPENDIX E

GEOHAZARDS REPORT

APPENDIX F

QUANTITATIVE RISK ASSESSMENT

APPENDIX G

PHASE I AND II ENVIRONMENTAL SITE ASSESSMENTS



Photo 1. Construction area for one half mile of new pipe at Carson Facility. Segment: 1



Photo 2. Air Products Hydrogen plant in Carson. Segment:1



Photo 3. Dominguez Channel as bordered new pipeline at the Carson Facility. Segment: 1



Photo 4. Trenching section for new pipeline. Segment: 1

Site Photographs
Appendix A



Photo 5. Industrial area on Sepulveda Boulevard on pipeline route. Segment: 1



Photo 6. Valve site(?) on Alameda Street. Segment: 3



Photo 7. Industrial area along the pipeline route on Alameda Street. Segment: 3



Photo 8. Intersection of Alameda Street and Del Amo Boulevard. Segment: 4

Site Photographs
Appendix A



Photo 9. Industrial area near intersection of Alameda and Del Amo. Segment: 4



Photo 10. The Los Angeles River at the pipeline crossing. Segment: 5.

Site Photographs
Appendix A



Photo 10. Intersection of Del Amo Boulevard and Locust Avenue. Segment: 6



Photo 12. Residential area along pipeline route. Segment: 6



Photo 13. Commercial area along pipeline route. Segment: 6



Photo 14: Proposed site of construction for pipeline connection. Segment: 7.



Photo 15. Residential area on pipeline route on Downey Avenue. Segment: 8



Photo 16. Commercial area on Downey Avenue. Segment: 9

Site Photographs
Appendix A

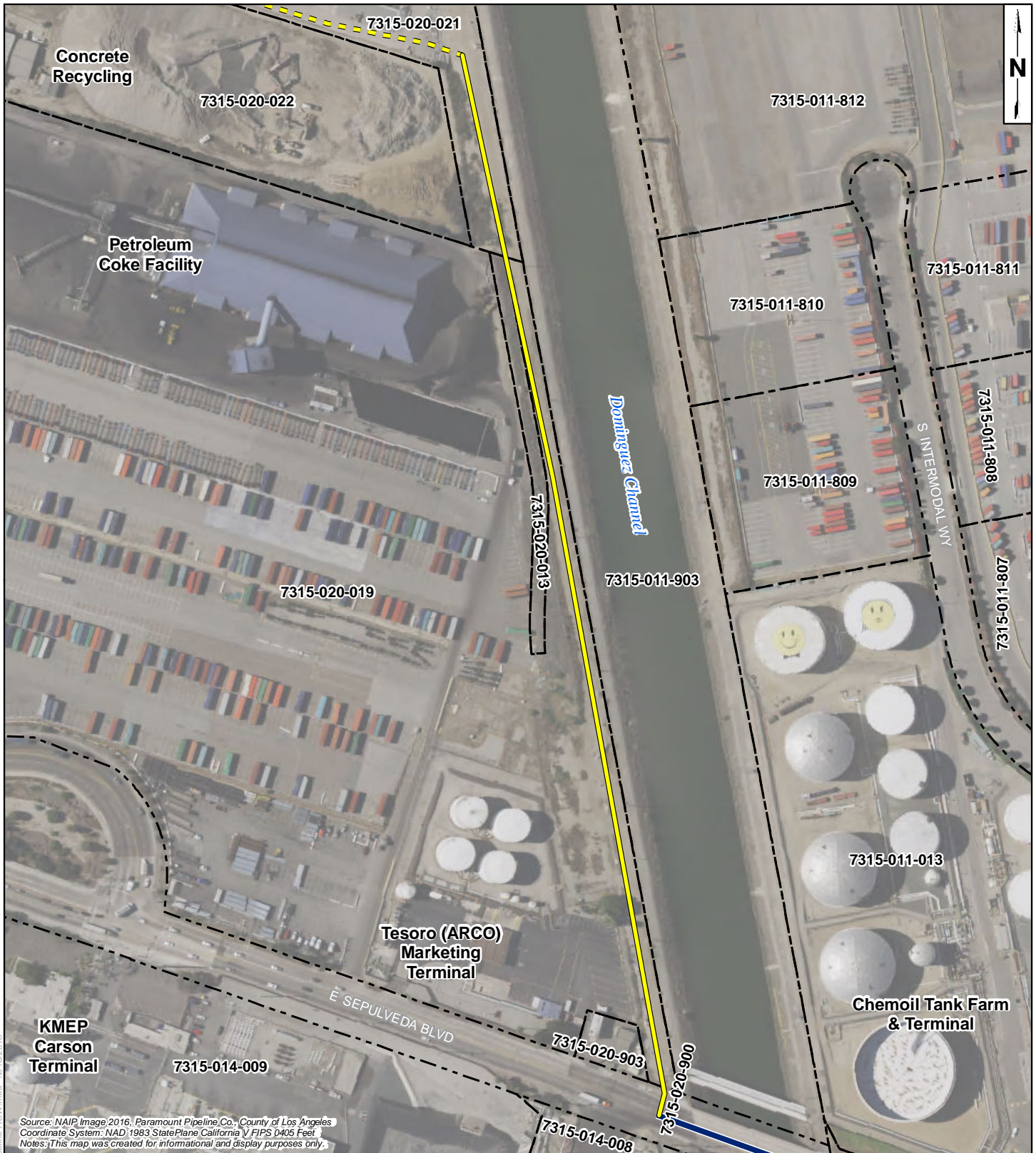


Photo 17. Transition area from residential to industrial in Paramount. Segment: 10



Photo 18. Entrance gate to the Paramount Refinery. Segment: 10

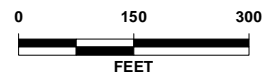
Site Photographs
Appendix A



Source: NAIP Image 2016, Paramount Pipeline Co., County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

LEGEND:

- Assessor Parcel Boundary
- New Pipeline within Existing Pipe ROW
- New Pipeline
- Existing Pipeline Segment
- PPC Line 4, Seg. 8



Carson to Paramount Pipeline Phase II Work Plan Pipeline ROW.mxd 12/18/2018

<p>padre associates, inc. ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS</p>	PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA		<h1 style="margin: 0;">SITE PLAN</h1>	PLATE 2
	PROJECT NUMBER: 1802-2611	DATE: December 2018		

PHASE I ARCHAEOLOGICAL SURVEY

CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT, LOS ANGELES COUNTY, CALIFORNIA

Project No. 1802-2611

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NOVEMBER 2018



NATIONAL ARCHAEOLOGICAL DATA BASE INFORMATION

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Report Title: Phase I Archaeological Survey, Carson to Paramount Hydrogen Pipeline Project, Los Angeles County, California

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U.S.G.S. Quad: Long Beach, California

Key words: Los Angeles County, City of Carson, City of Paramount, City of Long Beach, City of Bellflower, City of Los Angeles, Tongva, Phase I Archaeological Study

MANAGEMENT SUMMARY

On behalf of Air Products and Chemicals, Inc. (Air Products), Padre Associates, Inc. (Padre), has conducted a Phase I archaeological survey for the proposed Carson to Paramount Hydrogen Pipeline Project (Project) in the City of Carson, Los Angeles County, California. Air Products proposes to construct approximately 0.5 mile of new pipeline within the City of Carson, California, and utilize 12 miles of existing, pipeline for the conveyance of hydrogen gas. This report summarizes the results of an archaeological records search and a Phase I pedestrian survey for the 0.5 mile of new pipeline (Project site) within the City of Carson and does not address the 12-mile existing pipeline.

On October 10, 2018, Padre Archaeologist Matt Seger completed the Phase I pedestrian survey and did not observe any cultural resources within the Project site. The records search identified CA-LAN-2682, a protohistoric habitation site and cemetery approximately 618 feet west of the western terminus of the Project site.

Based on the survey results the proposed Project will not impact any recorded prehistoric or historic resources. Therefore, no further archaeological investigation of the Project's potential impact areas is warranted prior to Project implementation. However, given the proximity to CA-LAN-2682 there is a possibility that unknown buried prehistoric resources could occur within the Project site. Therefore, the following recommendations are provided to reduce any potential significant impacts to buried prehistoric deposits to a less than significant level:

- A professional archaeologist and Native American monitor should be retained to monitor all Project related earth disturbances within the first 100 feet of the underground portion of the Project site. The area recommended for monitoring would start approximately 400 feet southeast of the intersection with South Alameda Street and where the Project site transitions from aboveground to underground. The area would continue east for 100 feet into the Air Products Carson Hydrogen Facility.
- At the commencement of Project construction, the archaeological monitor shall give all workers associated with earth-disturbing procedures an orientation regarding the probability of exposing cultural resources and directions as to what steps are to be taken if a find is encountered.
- The archaeologist shall have the authority to temporarily halt or redirect Project construction in the event that potentially significant cultural resources are exposed. Based on monitoring observations and the actual extent of project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with Air Products and the lead CEQA Agency.

Padre did not encounter any major constraints that may affect Project implementation. One copy of this report and attachments will be submitted to the South Central Coastal Information Center (SCCIC) at California State University, Fullerton (CSUF). A copy of all field notes is on file at Padre's office in San Luis Obispo, California.

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APPENDICES

Appendix A: Confidential Records Search Results

1.0 INTRODUCTION

On behalf of Air Products and Chemicals, Inc. (Air Products), Padre Associates, Inc. (Padre), has conducted a Phase I archaeological survey for the proposed Carson to Paramount Hydrogen Pipeline Project (Project) in the City of Carson, Los Angeles County, California. This report summarizes the results of an archaeological records search and a Phase I pedestrian survey for the 0.5 mile of new pipeline (Project site) within the City of Carson and does not address the 12-mile existing pipeline.

Padre Archaeologist Matt Seger surveyed the Project site for archaeological resources on October 10, 2018. Rachael J. Letter M.S., RPA, who meets the U.S. Secretary of the Interior's Historic Preservation Professional Qualification Standards as outlined in 36 CFR 61, served as the Archaeological Project Manager.

The remainder of this section provides the project description and location; Section 2.0 discusses the regulatory framework; Section 3.0 provides the environmental, ethnographic and archaeological overviews for the region; Section 4.0 describes the records search results; Section 5.0 presents the field methodology and survey results; Section 6.0 provides a summary and recommendation; and references are listed in Section 7.0. Appendix A contains the confidential records search results.

1.1 PROJECT DESCRIPTION AND SITE LOCATION

Air Products proposes to construct approximately 0.5 mile of new pipeline within the City of Carson, California (Project site). Air Products will also utilize 12 miles of existing pipeline for the conveyance of hydrogen gas. The Project includes the installation of several pipe connections to connect segments of existing pipelines. Air Products also proposes to remove existing manual valves and add automatic shut-off valves within valve boxes and pump station facilities along the pipeline route.

The Project site is located within the Long Beach, California United States Geological Survey (USGS) 7.5-Minute Series topographic quadrangle map. Specifically, the Project Site is located in an unsectioned portion of the San Pedro Land Grant, Township 4 South, Range 13 West in the City of Carson in southern Los Angeles County (Figure 1-1). Elevation within the Project site is approximately 20 feet above mean sea level. Alameda Street runs along the western edge and East Sepulveda Boulevard runs along the southern edge of the Project site. The Project site is bounded on the eastern side by the Dominguez Channel, and a developed industrial area is situated to the immediate north. The Los Angeles River is located approximately 1.36 miles to the east.

Figure 1-1. Project Location Map.

2.0 REGULATORY AUTHORITY

The following regulatory framework describes the applicable state and local statutes, ordinances, and policies pertaining to the protection of cultural resources. These laws must be considered during the planning process for projects that have the potential to affect cultural resources in Los Angeles County.

2.1 STATE REGULATIONS

2.1.1 California Environment Quality Act

The California Environmental Quality Act (CEQA) Statute and Guidelines include procedures for identifying, analyzing, and disclosing potential adverse impacts to historical resources, which include all resources listed in or formally determined eligible for the National Register of Historic Places (NRHP), the California Register of Historical Resources (CRHR), or local registers. CEQA further defines a “historical resource” as a resource that meets any of the following criteria:

- A resource listed in, or determined to be eligible for listing in, the NRHP or CRHR;
- A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the Public Resources Code, unless the preponderance of evidence demonstrates that it is not historically or culturally significant;
- A resource identified as significant (i.e., rated 1-5) in a historical resource survey meeting the requirements of Public Resource Code Section 5024.1(g) (Department of Parks and Recreation Form [DPR] 523), unless the preponderance of evidence demonstrates that it is not historically or culturally significant; or
- Any object, building, structure, site, area, place, record or manuscript, which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military or cultural annals of California, provided the determination is supported by substantial evidence in light of the whole record. Generally, a resource is considered “historically significant” if it meets the criteria for listing on the CRHR (CEQA Guidelines Section 15064.5).

2.1.2 California Register of Historical Resources

The CRHR is a listing of State of California resources that are significant within the context of California’s history, and includes all resources listed in or formally determined eligible for the NRHP. In addition, properties designated under municipal or county ordinances are also eligible for listing in the CRHR. A historic resource must be significant at the local, State, or national level under one or more of the following four criteria defined in the California Code of Regulations Title 14, Chapter 11.5, Section 4850:

- 1) It is associated with events or patterns of events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States (Criterion 1); or

- 2) It is associated with the lives of persons important to local, California, or national history (Criterion 2); or
- 3) It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values (Criterion 3); or
- 4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation (Criterion 4).

A cultural resource's significance must be demonstrated under one of the CRHR criterion described above, and it must retain its historic integrity. Cultural resources integrity is determined using the CRHR's seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association. The CRHR criteria are tied to CEQA, as any resource that meets the above criteria and retains its integrity is considered to be an historical resource under CEQA.

2.2 LOS ANGELES COUNTY GUIDELINES

2.2.1 Historic Preservation Ordinance

The Los Angeles County Board of Supervisors adopted the historic preservation ordinance on September 1, 2015. This ordinance is applicable only to the unincorporated territory of the county. The purpose of the historic preservation ordinance is to:

- Enhance and preserve the County's distinctive historic, architectural, and landscape characteristics that are part of the County's cultural, social, economic, political, and architectural history;
- Foster community pride in the beauty and noble accomplishments of the past as represented by the County's historic resources;
- Stabilize and improve property values in and around the County's historic resources, and enhance the aesthetic and visual character and environmental amenities of these historic resources;
- Recognize the County's historic resources as economic assets and encourage and promote the adaptive reuse of these historic resources;
- Further establish the County as a destination for tourists and as a desirable location for businesses; and to
- Specify significance criteria and procedures for the designation of landmarks and historic districts, and provide for the ongoing preservation and maintenance of these landmarks and historic districts.

2.2.2 Los Angeles County Historical Landmarks and Records Commission

The Historical Landmarks and Records Commission (HLRC) is an advisory body established to consider and recommend to the Board of Supervisors local historical landmarks defined to be worthy of registration by the State of California Department of Parks and

Recreation, either as "California Historical Landmarks" or as "Points of Historical Interest" and may consider and comment for the Board on applications relating to the NRHP. Criteria for designation, including significance and access and provision for maintenance, shall be as specified in state law, including the California Public Resources Code, or in regulations and interpretations of the State Historical Resources Commission.

2.3 REGULATIONS CONCERNING DISCOVERY OF HUMAN REMAINS

California Public Resources Code §5097.98 (Notification of Native American human remains, descendants; disposition of human remains and associated grave goods) mandates that the lead agency adhere to the following regulations when a project results in the identification or disturbance of Native American human remains:

- (a) Whenever the commission receives notification of a discovery of Native American human remains from a county coroner pursuant to subdivision (c) of Section 7050.5 of the Health and Safety Code, it shall immediately notify those persons it believes to be most likely descended from the deceased Native American. The descendants may, with the permission of the owner of the land, or his or her authorized representative, inspect the site of the discovery of the Native American remains and may recommend to the owner or the person responsible for the excavation work means for treating or disposing, with appropriate dignity, the human remains and any associated grave goods. The descendants shall complete their inspection and make their recommendation within 48 hours of their notification by the Native American Heritage Commission. The recommendation may include the scientific removal and nondestructive analysis of human remains and items associated with Native American burials.
- (b) Whenever the commission is unable to identify a descendant, or the descendant identified fails to make a recommendation, or the landowner or his or her authorized representative rejects the recommendation of the descendant, and the mediation provided for in subdivision (k) of Section 5097.94 fails to provide measures acceptable to the landowner, the landowner or his or her authorized representative shall reinter the human remains and items associated with Native American burials with appropriate dignity on the property in a location not subject to further subsurface disturbance.
- (c) Notwithstanding the provisions of Section 5097.9, the provisions of this section (including those actions taken by the landowner or his or her authorized representative to implement this section), and any action taken to implement an agreement developed pursuant to subdivision (l) of Section 5097.94, shall be exempt from the requirements of the California Environmental Quality Act (Division 13, commencing with Section 21000).
- (d) Notwithstanding the provisions of Section 30244, the provisions of this section (including those actions taken by the landowner or his or her authorized representative to implement this section), and any action taken to implement an agreement developed pursuant to subdivision (1) of Section 5097.94 shall be exempt from the requirements of the California Coastal Act of 1976 (Division 20, commencing with Section 30000).

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3.0 NATURAL AND CULTURAL OVERVIEW

3.1 ENVIRONMENTAL SETTING

The Project site is located on the Torrance Plain, an alluvial coastal plain extending north from present-day Los Angeles and Long Beach Harbors (Reagan, 1915). The Torrance Plain is a predominantly level landscape characterized by marshy lakes and wetland areas, which historically has been subjected to frequent flooding from the nearby Los Angeles River, as well as from other channelized streams such as Dominguez Sough and Compton Creek. Except for two prominences, Dominguez Hill at 179 feet above sea level and Palos Verdes Hill at 1400 feet above sea level, the Torrance plain is featureless and reaches a maximum elevation of 35 to 40 feet above mean sea level.

Soils within the Project site are a light greyish brown silty loam and slopes range from a minimal 1 to 2.5 degrees. The regional climate is generally mild with an annual mean temperature of 62 degrees Fahrenheit and a single season (November-April) of moderate (12 to 15 inches) rainfall (U.S. Weather Bureau Statistics; Bates, 1963).

Vegetation is presently sparse within the Project site, primarily due to development. Historically, marshy soils and lake shores in the area would have supported growths of Alder (*Alnus rhombifolia*), Willow (*Salix spp.*), Rushes (*Juncus spp.*), Cottonwood (*Populus trichocarpa*), Bulrushes (*Scirpus spp.*), and Cat-tail (*Typha spp.*). To the north of the Project site, canyons and drainages within the higher elevations of Palos Verdes Hills are dominated by scrub brush and Valley and Coastal Live Oak (*Quercus spp.*). Cactus (Cholla, Prickly Pear), Toyon, Yucca, Coastal Sagebrush and Sugarbrush (*Rhus Ovata*) occur along arid slopes receiving more direct sun. The Project site is located within the coastal plain, an area which, prior to development, supported a wide variety of grasses (Deergrass, Giant Rye Grass, Pepper Grass), Buckwheat, Sagebrush and Chia and, from the historical period onward, localized groves of Eucalyptus and other non-indigenous trees and shrubs (Butler, 1974; Curtis, 1959; Bates, 1963).

3.2 ARCHAEOLOGICAL CONTEXT

The following summary of the prehistory of the Los Angeles Basin, which can be included within the broader, regional patterns of southern California prehistory, is based on Byrd and Raab (2007), which is in turn based upon Erlandson and Colten's (1991) division of the Late Holocene into Early, Middle and Late subdivisions.

3.2.1 Pleistocene (Pre-9600 cal. B.C.)

Traditional models of California prehistory suggest that the state's first inhabitants, at times referred to as the 'Paleo-Indians', were highly mobile bands of large game hunters who ranged across North America during the terminal phases of the last Ice Age (Fagan, 2003; Moratto, 1984; Wallace, 1978). However, physical evidence for Paleo-Indian occupation of Southern California, particularly for coastal areas, remains scant. When the last Ice Age, known as the Wisconsin, began to wane around 10,000 to 8,000 cal. B.C., the resulting changes in climate are thought to have triggered far-reaching cultural responses in California as prehistoric populations sought to cope with the onset of warmer, drier conditions. In the state's interior

desert regions, rivers and lakes that were once fed by the wetter climatic conditions of the Pleistocene began to shrink or vanish altogether. For those who relied upon these lacustrine and riverine environments for subsistence, in particular those cultures subsumed under the heading of the broader Western Pluvial Lakes Tradition, these climatic changes necessitated shifts in subsistence strategy and settlement patterns, which included exploiting a wider range of plant and animal species and migrations to regions with more favorable conditions, such as the Southern California coast (Byrd and Raab, 2007).

3.2.2 Early Holocene (c. 9600 cal. B.C. – 5600 cal. B.C.)

After the initial settlement of peoples from the interior regions, coastal groups began to adapt to marine environments and incorporated shellfish and saltwater fish into their diets, particularly after post-Pleistocene sea-level rise created estuaries and bays out of formerly perched areas. In this context, shellfish are interpreted as a dietary staple, supplemented by vegetal resources that included several types of nuts and grasses. Hunting and fishing were also practiced, but as a subsistence strategy were given less focus than resources located within the tidal zone (Byrd and Raab, 2007). Radiocarbon evidence shows occupation of the coastal region of Southern California occurred sometime between ca. 8000 and 7000 cal. B.C. (Byrd and Raab, 2007).

3.2.3 Middle Holocene (5600 cal. B.C. – 1650 cal. B.C.)

The Middle Holocene has been traditionally seen as a time of transition, during which Early Holocene cultural adaptations were gradually modified into forms that are recognizable during the Late Holocene. Across much of central and Southern California, Millingstone cultures appeared around 6000 to 5000 cal. B.C. This adaptation focused on the collection and processing of small plant seeds such as acorn and chia, and the hunting of a variety of small and medium-sized mammals (Byrd and Raab, 2007). The mano and metate, long utilized for the processing of seeds, were gradually replaced with the mortar and pestle during this period. This adaptive strategy, referred to as the Millingstone Horizon, is viewed as remaining relatively unchanged for several thousand years. Typical reconstructions of Middle Holocene occupations on the mainland have emphasized sizeable semi-sedentary populations that were established around resource-rich coastal bays and estuaries (Byrd and Raab, 2007).

Today, Middle Holocene occupation of the mainland region is recognized as considerably more diverse than initially posited. For example, Middle Holocene sites have been documented in inland settings, while considerable variability is recognized in adaptive strategies throughout the region. In addition, evidence has emerged of geographically expansive trade networks and spheres of cultural interaction, linking Southern California with a vast region of the American West during the Middle Holocene (Byrd and Raab, 2007).

At some point during this period, one or more waves of Uto-Aztecan-speaking peoples migrated from the Great Basin across Southern California, settling along the coast and eventually colonizing the southern Channel Islands. The movement of these people across Southern California is thought to have displaced resident groups, creating a distinctive “Shoshonean wedge” (Kroeber, 1925).

3.2.1 Late Holocene (1650 cal. B.C. – cal. A.D. 1769)

The generally accepted models for this period indicate that the Late Holocene was a time of emergence for the cultural patterns and tribal groups that would later be observed by early Euro-American explorers and settlers (Byrd and Raab, 2007). Sometime after cal. A.D. 500, the bow and arrow appeared, replacing the throwing spear or *atl-atl* as the preferred instrument of hunting and warfare. In the interior regions, ceramics were adopted sometime after A.D. 1000. Recent research has revealed that this period has more complex and dynamic regional and local patterns of change than was previously thought (Byrd and Raab, 2007). For example, cultural change may have been rapid rather than gradual, and periods of cultural stress were not limited to post-contact times but occurred during the prehistoric era as well.

Although marine resources remained extremely important during the late Holocene, major shifts took place in subsistence practices, settlement patterns, and the organization of labor. During this period, hunter-gatherers in Southern California focused increasingly on smaller resources that generally occurred in greater amounts, often referred to as resource intensification (Byrd and Raab, 2007).

Late Holocene settlement patterns are characterized by comparatively large residential camps that were linked to numerous ephemeral satellite sites. Site types include major residential bases, residential camps, resource procurement areas, and limited activity sites. The smaller sites were non-randomly distributed short-term encampments, some of which were dedicated to specialized subsistence tasks (Byrd and Raab, 2007).

3.3 ETHNOGRAPHIC CONTEXT

The Project site is located within the ethnographic territory of the *Tongva* people. Prior to contact with Europeans, Tongva lands encompassed the greater Los Angeles Basin and three of the Channel Islands (San Clemente, San Nicholas, and Santa Catalina). On the mainland, Tongva territory reached as far as Topanga Creek and the San Gabriel Mountains to the north, Lytle Creek to the east, and Aliso Creek in the south (Bean and Smith, 1978; Kroeber, 1925). The Tongva are at times referred to as Gabrielino or Fernandño, which are Spanish terms used to refer to indigenous persons who were baptized at or residing within Mission San Gabriel (Gabrieleno) and Mission San Fernando (Fernandño). It was to these missions that most native peoples living on the coastal plains and valleys of southern California were taken.

The Tongva spoke a variant of the indigenous Takic language, which derives from the broader Uto-Aztecan stock. The Tongva are believed to have migrated into southern California from the Great Basin between 1,000 and 3,000 years ago and have been associated by other researchers with the phenomenon known as the “Takic Wedge” (Bean and Smith, 1978). Tongva societal organization was patrilineal and centered around non-localized clans in a typical, Takic pattern. The Tongva established large, permanent villages in the fertile lowlands along rivers and streams and along the coast, with numerous, smaller settlements spread throughout their territory (Bean and Smith, 1978).

The Tongva subsistence economy, like most indigenous cultures in California, was based on hunting and gathering. However, the richness and sheer variety of ecological resources that were available to the Tongva enabled them to surpass many other indigenous

groups in terms of population size and material wealth. Vegetal and faunal resources, already abundant on the mainland in this part of California, were bolstered even further by an extensive array of marine resources along the coast and offshore islands. Predominant food sources included acorns, which were a staple, supplemented by sage seeds (Chia), roots and tubers, berries, yucca, deer, rabbit, waterfowl, reptiles, freshwater fish, and a host of marine species that included shellfish, saltwater fish, dolphin, and seal (Bean and Smith, 1975; Kroeber, 1925; McCawley, 1996). In addition, the Tongva's control of Santa Catalina Island, which contains a large source of high-quality soapstone or *steatite*, afforded them a pivotal role as crafters and distributors of this relatively uncommon and sought-after material.

A typical Tongva house consisted of a domed, circular structure with thatching of tule, fern or carrizo. In coastal and island environments where doorways opened seaward to avoid the north wind, Tongva houses could be quite large - with some estimates ranging as high as sixty feet in diameter. Some examples of Tongva houses and are said to have been sufficient to accommodate three or four families (Harrington, 1942; Johnston, 1962; Costanso, 1911). Other structures commonly found in villages included sweathouses, menstrual huts, and a ceremonial enclosure known as a *yuva'r*. The Tongva village closest to the Project site occupied an area near present-day 239th Street and Utility Street, and is referred to in ethnographic literature as *Suangna*, which means '*place of the skies*'. Suangna served as the political center for a cluster of smaller villages and its chief was the political leader for these associated villages in addition to his own (Bean and Smith, 1975).

At the time of Spanish contact, the basis of Tongva religious life was the *Chinigchinich* cult, centered on the last of a series of heroic mythological figures. According to the Tongva, Chinigchinich first appeared to them as a spectral deity or evanescent vision who set the future course of tribal law and institutions and taught them how to dance. After delegating powers and responsibilities to certain persons, Chinigchinich is said to have created a new race of people from the mud, instructing these new people in the new life-ways. He later withdrew into heaven, where he administered rewards to the faithful and punishment to the disobedient. When the Spanish first arrived in Gabrieleno territory, they found that the belief in Chinigchinich had spread to neighboring non-Tongva groups such as the Luiseno, Ipai-Tipai, Cupeno, and Juaneno, and that the religious movement had at some point intertwined with a pre-existing *toloache* cult (Bean and Smith, 1975).

3.4 HISTORIC PERIOD CONTEXT

3.4.1 Contact and Mission Periods (A.D. 1542 – 1820)

The first European account of the area that would become the County of Los Angeles was by Portuguese navigator Joao Rodrigues Cabrilho (Juan Rodriguez Cabrillo, in Spanish), who led a Spanish expedition along the California coast in 1542. When Cabrillo first arrived in San Pedro Bay, the Tongva campfires along the coastline are said to have been so numerous that he was inspired to name the area *Baya de los Fumos*, or "Bay of the Smokes". Spain's presence in the region would be intermittent for the next 200 years (Chartkoff and Chartkoff, 1984).

Gaspar de Portolá led the first land expedition in 1769, accompanied by Fray Junípero Serra, marking the beginning the establishment of California missions and subsequent European and Mexican occupation. A later land expedition led by Juan Bautista de Anza De Anza departed from the Tubac Presidio, south of present-day Tucson, Arizona on January 8, 1774. Guided by a Gabrieleno named Sebastian Tarabal, the de Anza expedition arrived at Mission San Gabriel Arcangel on March 22, 1774. De Anza would mount another expedition on October 23, 1775, this one being composed primarily of colonists, which arrived at Mission San Gabriel Arcangel in January 1776. The first of the missions to be established was Mission San Diego de Alcalá in 1769, followed by 20 others between 1769 and 1822. The missions nearest the Project site are Mission San Gabriel Arcangel, founded in 1771 and located approximately 16.7 miles northeast, and Mission San Fernando Rey de España, founded in 1797 and located approximately 34.3 miles northwest.

On September 4, 1781, Alta California governor Felipe de Neve granted the first settlement in the region, Nuestra Señora La Reina de Los Angeles, or the Pueblo de Los Angeles, with a vast territory covering 28 square miles.

3.4.2 Rancho and Mexican Periods (A.D. 1820 – 1850)

The Rancho and Mexican Period was an era of extensive interior land grant development and exploration by American fur trappers west of the Sierra Nevada. In 1821, Mexico declared independence from Spain and a year later, California became a Mexican Territory. After the secularization of the missions in 1834, lands were gradually transferred to private ownership via a system of land grants (Hoover, 1990).

The Project site is located within lands encompassed by the former Rancho San Pedro, a land concession granted in 1784 by King Carlos III of Spain to Juan Jose Dominguez, a Spanish soldier who had accompanied the Portola expedition and later aided Father Junipero Serra with the founding of numerous missions throughout Alta California (Gillingham, 1961). Rancho San Pedro was originally seventeen Spanish leagues (75,000 acres) in size and included present-day Los Angeles harbor, San Pedro, the entire Palos Verdes peninsula, Torrance, Redondo Beach, Manhattan Beach, Carson, Compton, Gardena, and portions of Long Beach and Paramount. Although Dominguez's original grazing permission amounted to 75,000 acres, this concession did not represent an actual land title. An official land title was not granted until 1822, when the Mexican government "re-granted" 48,000 acres to Juan Jose's nephew and heir, Cristobal Dominguez. Cristobal died soon after the Mexican validation of the rancho, and his three sons inherited the lands and constructed adobe residences for their families. In 1823, Manuel Dominguez, Juan Jose's eldest son, married Maria Engracia de Cota. Manuel would go on to lead a successful career in cattle-raising and later served in a variety of elected and appointed offices in Los Angeles.

Following the Bear Flag Revolt in 1846, John C. Frémont and his troops marched through the Santa Clara River Valley and crossed into the San Fernando Valley near the present alignment of the Sierra Highway (Impact Sciences, 2010). A minor military engagement during the Mexican-American War took place in an area adjacent to the San Pedro Rancho., U.S. Navy Captain William Mervine led a force of 285 American marines, sailors and bear flaggers led occupied the Dominguez adobe (3.87 miles north of the Project site) on the night of

October 6, 1846 (Bancroft et al., 1886; Bauer, 1976). During the battle, known as the Battle of Dominguez Rancho, the American force engaged a smaller force of Mexican militia led by Captain Jose Antonio Carrillo and General Jose Maria Flores, but was repelled by musket fire and a four-pound brass cannon which the Mexican force had hidden in vegetation. American casualties were light, with estimates of the dead ranging from as little as 4 to as many as 12, with about as many wounded. The fallen American troops were later buried on Isla de los Muertos in San Pedro Bay (Bancroft et al., 1886). Hostilities between the American and Mexican troops ended with the signing of the Treaty of Cahuenga on January 13, 1847 (Walker, 1999). President Polk signed the Treaty of Guadalupe Hidalgo in 1848, marking the formal transfer of the territory to the United States. California was recognized as a state in September 1850.

3.4.3 Americanization Period (A.D. 1850-present)

With the discovery of gold in 1848 at Sutter's Mill and the completion of the transcontinental railroad in 1869, thousands of settlers began immigrating to California. The County of Los Angeles was established on February 18, 1850, as one of 27 counties established in the months prior to California attaining statehood. Of the numerous ranchos extant in California at the start of the American Period, many were sold or otherwise acquired by American settlers and investors, with the clear majority being subdivided into agricultural parcels or towns.

Rancho San Pedro, which at this time already had the distinction of being one of the oldest grants in California, gained the additional distinction of being the very first to win a patent from the United States. As required by the Land Act of 1851, a claim for Rancho San Pedro was filed with the Public Land Commission in 1852, and a patent for 43,119 acres was granted to Manuel Dominguez and signed by President James Buchanan on December 18, 1858. Throughout this time, Los Angeles was expanding as a center of trade and agriculture (Cleland, 1941, 1918; Guinn, 1915; Robinson, 1939; McWilliams, 1973). A formal postal service was established in 1851, followed by stagecoach and steamship lines connecting San Francisco and San Pedro Harbor with Los Angeles. That same year, the two roads leading from Los Angeles to San Pedro were officially designated as public highways.

During the late 1860s, several years of severe drought brought an end to large scale cattle-ranching in the area. With water scarce, area ranchers, including the Dominguez family, were forced to invest large sums of money in feed to support their herds. To sustain the increased costs of ranching, many families resorted to heavy mortgages or loans from private backers with large cash reserves. Ultimately, many ranchos were sold or partitioned when the mortgages foreclosed. On the Dominguez Rancho, a switch was made to sheep. The sheep grazing had a profound effect on native vegetation, which had already been severely degraded by years of cattle grazing. Soon, the willows, alders and cottonwoods were gone, replaced with annual grasses and introduced species such as mustard.

To satisfy debts and various claims, Pedro Dominguez sold a large portion of his family's rancho in 1867, which was then subdivided into what is now the City of Compton. The Los Angeles and San Pedro railroad was constructed in 1870 on land provided by Manuel Dominguez, prompting a new era of land development and competing railroad companies

(Gillingham, 1961; Guinn, 1911; Hoyt, 1953; Dumke, 1944). With the death of Don Manuel Dominguez in 1882, the Dominguez Rancho was resurveyed and distributed to his six daughters. A land dispute between the Dominguez and Sepulveda families, which had begun as early as 1817, evolved into lawsuits over the next several decades before finally being resolved in 1882 and the Rancho was partitioned into seventeen parcels. At this time, the Sepulveda family was awarded 31,629 acres known as Rancho de los Palos Verdes, which would later become the city of Palos Verdes Peninsula, as well as portions of the cities of Torrance and San Pedro. In 1887, 13 streets were dedicated to the County of Los Angeles, many of which remain active thoroughfares in the present day. Included among these were Tomlinson Street (Normandie Avenue), Victoria Street, Dominguez Street, Carson Street, Los Angeles Street, Dolores Street, Wilmington Street (223rd Street), Ocean Street (228th Street), and Rocha Street (Sepulveda Boulevard).

At the turn of the century, the Carson area remained a dry and dusty land with little vegetation, a result of nearly a century of overgrazing. The Dominguez Water Company, a subsidiary of Dominguez Estates Company, formed in 1911 to support expanding agriculture and the proposed development of what would later become the city of Torrance. Heavy flooding in 1914-1916 resulted in the inundation of the Dominguez Slough and Watson Lakes area, with extensive damage to farms and crops in the area. Over the next few decades, local industry continued to develop in the area that would later become the city of Carson, beginning with Shell Oil at Dominguez Hill, and the subsequent installation of utilities by Southern California Edison and Southern California Gas Company. Soon, a flourishing commercial district began to establish itself along Carson Street and Avalon Boulevard. By the time of the outbreak of World War II, virtually all the Carson City area was developed (Jerrills, 1972).

The postwar years were a time of rapid urbanization, with an emphasis on residential, commercial and 'clean' industrial development. Farming was phased out in all areas except Dominguez Hill, and dairies were replaced with tract housing and shopping centers. With the completion of the Harbor-San Diego Freeways and the commencement of large-scale landfill operations to free up more developable land in the Dominguez Slough area, the city began to assume its present-day configuration and the City of Carson was finally incorporated in 1968 (Jerrills, 1972).

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4.0 RECORDS SEARCH METHODS AND RESULTS

4.1 METHODS

On September 4, 2018, Padre ordered an expedited records search from the South Central Coastal Information Center of the California Historical Resources Information System (SCCIC-CHRIS) at California State University, Fullerton. Padre received the records search results on September 9, 2018. The records search included a review of all recorded historic-era and prehistoric archaeological sites within a 0.25-mile radius of the Project site, as well as a review of known cultural resource surveys and technical reports.

During the records search, the following sources were consulted:

- SCCIC base maps, USGS 7.5-minute series topographic quadrangles for the Project, and other historic maps;
- Pertinent survey reports and archaeological site records were examined to identify recorded archaeological sites and historic-period built-environment resources (such as buildings, structures, and objects) within or immediately adjacent to the Project; and
- The California Department of Parks and Recreation's California Inventory of Historic Resources (1991) and the Office of Historic Preservation's Historic Properties Directory (2007), which combines cultural resources listed on the California Historical Landmarks, California Points of Historic Interest, and those that are listed in or determined eligible for listing in the NRHP or the CRHR.

4.2 RESULTS

4.2.1 Previous Cultural Resources Studies

The records search identified 22 previous cultural resources studies within 0.25-mile of the Project site. One study (LA-04512), a cultural resources inventory completed for the City of Carson Community Planning Department in 1977, is described as covering all "undeveloped portions of the city (Eggers, 1977). A survey coverage map for this study indicates that the entire Project site was "55-85 percent surveyed" (Eggers, 1977).

4.2.2 Previously Recorded Archaeological Sites

The records search did not identify any previously recorded archaeological sites within the Project site; however, four archaeological sites are recorded within 0.25-mile of the Project site (Table 4-1).

Specifically, the records search located CA-LAN-2682, a protohistoric habitation site and cemetery approximately 618 feet west of the western terminus of the Project site. CA-LAN-2682 was encountered in September 1998 during "subsurface excavation for replacement of existing underground utility lines" within the ARCO refinery (Bonner, 2000). A summary report states that "when hand excavations were complete in early November 1998, all visible human remains had been removed to the satisfaction of both the archaeological team and the Native American monitors. However, future excavation may expose additional human burials. It is

possible that both burial levels may extend further in any or all directions from the portion that was exposed” (Bonner, 2000).

Table 4-1. Previously Recorded Archaeological Sites within 0.25-mile of Project Site.

Site No.	Author, Year	Description
CA-LAN-2682	McDowell and Bonner, 1998	Protohistoric habitation site and cemetery
CA-LAN-2942H	Paniagua, 2000	Wooden posts
P-19-186868	Martin and Self, 2003	KMEP Carson Terminal
P-19-187085	Elder, 1989	Mojave Road

Source: SCCIC, 2018.

5.0 FIELD SURVEY METHODS AND RESULTS

On October 10, 2018, Padre Archaeologist Matt Seger surveyed the proposed 0.5-mile pipeline corridor for archaeological resources. The survey began adjacent to South Alameda Street (Figure 5-1), following the north side of the corridor along the proposed west-east trending segment. After the corridor's abrupt turn to the south, the survey followed the eastern edge of the proposed north-south trending segment to its terminus at East Sepulveda Boulevard (Figure 5-2). The proposed pipeline was transected back from Sepulveda Boulevard to near Alameda Street, this time following the western and southern edges, respectively. The route was surveyed within 5 meters from the centerline on each transect; the existing valves, valve boxes, pump station facilities, and the canal along the proposed route limited the survey in instances to transecting directly within the proposed centerline.

The route was surveyed intensively in its entirety and special attention was paid to areas of exposed soils. The west-east segment of the line, beginning near Alameda Street, contained almost no ground visibility being almost entirely composed of gravel landscaping ballast and asphalt which were present beneath and juxtaposed to the existing above-ground pipeline on this portion. In contrast, the north-south segment along the canal had ground visibility of approximately 75 to 80 percent, lacking the above-ground line, and consisted of exposed and extremely disturbed silty loam (Figure 5-3). Along this segment, protruding upright portions of the previously existing pipeline, access boxes, drainage pipes, canal-associated concrete, other pipeline-related infrastructure protruding from below the ground surface, as well as one previously dug trench remnant (Figure 5-4), were all indicative of a homogenous soil profile lacking stratigraphy consistent with previous pipeline and canal construction efforts and impacts. Padre did not observe any archaeological resources during the survey.



Figure 5-1. Western end of proposed pipeline, adjacent to South Alameda Street, facing west.



Figure 5-2. Southern terminus at East Sepulveda Boulevard, facing south.



Figure 5-3. Exposed soils and previous disturbances within the north-south segment.



Figure 5-4. Previously excavated trench along the north-south segment.

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6.0 CONCLUSIONS AND RECOMMENDATIONS

Padre has completed a Phase I archaeological survey for the proposed Carson to Paramount Hydrogen Pipeline Project in the City of Carson, Los Angeles County, California. The Phase I pedestrian survey did not identify any archaeological resources within the Project site; however, the records search did locate CA-LAN-2682, a protohistoric habitation site and cemetery approximately 618 feet west of the western terminus of the Project site.

Based on the survey results the proposed Project will not impact any recorded prehistoric or historic resources. Therefore, no further archaeological investigation of the Project's potential impact areas is warranted prior to Project implementation. However, given the proximity to CA-LAN-2682 there is a possibility that unknown buried prehistoric resources could occur within the Project site. Therefore, the following recommendations are provided to reduce any potential significant impacts to buried prehistoric deposits to a less than significant level:

- A professional archaeologist and Native American monitor should be retained to monitor all Project related earth disturbances within the first 100 feet of the underground portion of the Project site. The area recommended for monitoring would start approximately 400 feet southeast of the intersection with South Alameda Street and where the Project site transitions from aboveground to underground. The area would continue east for 100 feet into the Air Products Carson Hydrogen Facility.
- At the commencement of Project construction, the archaeological monitor shall give all workers associated with earth-disturbing procedures an orientation regarding the probability of exposing cultural resources and directions as to what steps are to be taken if a find is encountered.
- The archaeologist shall have the authority to temporarily halt or redirect Project construction in the event that potentially significant cultural resources are exposed. Based on monitoring observations and the actual extent of project disturbance, the lead archaeologist shall have the authority to refine the monitoring requirements as appropriate (i.e., change to spot checks, reduce or increase the area to be monitored) in consultation with Air Products and the lead CEQA Agency.
- If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner has 24 hours to notify the Native American Heritage Commission. The lead CEQA Agency and Air Products shall be notified of any such find.

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APPENDIX A

CONFIDENTIAL RECORDS SEARCH RESULTS

**GEOHAZARDS REPORT
PROPOSED CARSON TO PARAMOUNT
HYDROGEN GAS PIPELINE PROJECT,
LOS ANGELES COUNTY, CALIFORNIA**

Prepared for:
Air Products and Chemicals, Inc.

December 2018



ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

December 3, 2018
Project No. 1802-2611

Air Products and Chemicals, Inc.
4000 MacArthur Boulevard, Suite 420 East Tower
Newport Beach, California 92660

Attention: Mr. Eric Guter, General Manager, HyCO Western Region

Subject: Geohazards Report, Proposed Carson To Paramount Hydrogen Gas Pipeline Project,
Los Angeles County, California

Dear Mr. Guter:

Padre Associates, Inc. (Padre), is pleased to present the attached geohazards study report to Air Products and Chemicals, Inc. (Air Products) describing the results of our geohazard evaluation services for a proposed hydrogen gas pipeline in Los Angeles County, California (Project Site). Services provided for this study were in general compliance with the scope of services presented in our proposal dated September 20, 2018.

This final report incorporates the findings of Padre's research of readily available documentation and site reconnaissance and presents our interpretations and opinions as to the extent and significance of the various geohazards in the area of the Project. We appreciate the opportunity to provide services to Air Products on this Project and look forward to assisting you on this in the future.

If you have any questions regarding this study, please contact us.

Sincerely,
PADRE ASSOCIATES, INC.

Eva von Thury, G.I.T.
Project Geologist

Jeffrey T. Damron, G.E.
Principal

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1.0 INTRODUCTION

1.1 PROJECT LOCATION AND UNDERSTANDING

Air Products is planning for the construction and operation of approximately 12 miles of welded steel pipeline that will connect existing facilities in Carson to a customer in Paramount, California. The pipeline would cross the cities of Carson, Los Angeles, Long Beach, Bellflower, Lakewood, and Paramount and would include a portion within unincorporated Los Angeles County. Padre also understands that the Project will utilize existing idle pipelines for approximately 11.5 miles of the entire length and would require construction of approximately 0.5 miles of new pipeline within the City of Carson. Several pipe connections would be required to connect segments of existing pipelines. Air Products would also add, replace, or remove existing valves along the route. The pipeline will cross the Dominguez Channel, Compton Creek, and Los Angeles River, utilizing existing pipe bridges.

1.2 METHODOLOGY

This Geohazards Report was prepared in general accordance with California Geological Survey Note 48 and Special Publication 117. The following sources of geologic and soils information were reviewed during preparation of this report:

- Fault evaluation reports prepared for the region by the California Geological Survey (CGS);
- Geologic and soil maps prepared for the region by the United States Department of Agriculture (USDA), CGS, and the United States Geological Survey (USGS);
- Historical aerial photography;
- Groundwater and flood mapping data; and
- Historical seismicity for the region of the Project Site.

Padre's findings and conclusions are discussed below.

1.3 SITE CONDITIONS

1.3.1 Topography

The pipeline alignment traverses from Southwest to Northeast through the urban setting of unincorporated Los Angeles County and the cities of Carson, Los Angeles, Long Beach, Bellflower, Lakewood, and Paramount. According to the USGS South Gate and Long Beach, California Quadrangle topographic maps, the Project Site has elevations that range from a low of 15 feet above mean sea level (ft amsl) at the start of the pipeline route near Carson, ranging to 80 ft amsl at the highest elevation near the end of the pipeline route corridor in Paramount (Figure 1 – Site Location Map). Therefore, the Project Site experiences approximately 65 ft of elevation change along the length of the proposed pipeline.

1.3.2 Site Usage

The proposed 12-mile pipeline alignment generally follows existing paved roads with few exceptions. Padre performed site reconnaissance of the proposed pipeline on October 22, 2018, by driving the mapped route shown on Figures 2a through 2j – Pipeline Route Map. The proposed pipeline route traverses through city streets of urban residential, commercial, and industrial neighborhoods.

Based on a review of available historical aerial photographs from the University of California Map and Imagery Library (UCSB MIL) and historical aerial imagery made available by Google Earth Pro, Padre assessed that the land use of the proposed alignment was historically used for agriculture, oil and gas, suburban, urban, and industrial land purposes. The first oil well was drilled in Los Angeles county in the 1870s. Shortly after, the City of Long Beach was established in 1888 and its outlying communities were established at the end of the 19th and beginning of the 20th centuries, laying the foundation for the existing residential, business, and industrial communities. By the 1920s, the Long Beach Oil Field production had peaked with the 1921 oil discovery in Signal Hill, California, and these fields continue to produce oil to date (Harden, 2004). Portions of line 4, segments 5 and 6 of the proposed pipeline traverse the southeastern quadrant of the Dominguez Oil Field. During the 20th century, agricultural lands were developed for the current residential and commercial uses along the proposed pipeline route.

Historical aerial photographs for the Project Site were obtained through UCSB MIL and Google Earth Pro database searches. Historical aerial photographs included in that search are listed below in Table 1 – Historical Aerial Photographs Reviewed.

Table 1. Historical Aerial Photographs Reviewed

Date	Scale	Flight No. / Frame No.	Database Searched
1927	1" = 18,000'	c-300_m-140, -154, -165, -168, -169, -170, and -180	UCSB MIL
1928	1" = 7,200'	c-236_j-1, -2, -3, 4, and -5	UCSB MIL
1930	1" = 18,000'	c-883_56, 57, 58, 77, and z-3	UCSB MIL
1933	1" = 12,600'	c-2668x_c-14	UCSB MIL
1937	1" = 20,000'	axj-1938_30-25, -26, -49; axj-1938_73-11 and -12	UCSB MIL
1938	1" = 19,800'	c-5025_4 and _9	UCSB MIL
1944	1" = 3,600'	c-9114_250, _251, _252, _275, _276, _277, _278, _280, _281, _282, _283, _284, _285, _286, _288, _310, _312, and _322	UCSB MIL
1947	1" = 24,000'	c-11351_8-16	UCSB MIL
1952	1" = 20,000'	axj-1952_19k-5	UCSB MIL
1956	1" = 14,400'	c-22555_22-35, _23-35, _24-34, _24-35, _24-36, and _26-31	UCSB MIL

Table 1. Historical Aerial Photographs Reviewed

Date	Scale	Flight No. / Frame No.	Database Searched
1960	1" = 14,400'	c-23870_599, _2133, _2208, _2209, and _2264	UCSB MIL
1962	1" = 12,000' / 1" = 18,000'	c-24400_5-297 and _5-298 / pai-la-basin-62_151v-143 and -144	UCSB MIL
1971	1" = 10,400'	tg-2755_7-15	UCSB MIL
1972	1" = 24,000'	tg-7300_15-9 and 10	UCSB MIL
1972	1" = 36,000'	ami-la-72_6155	UCSB MIL
1973	1" = 36,000'	ami-la-73_6757	UCSB MIL
1976	1" = 24,000'	tg-7600_4-11, tg-7600_5-12 and -13, and tg-7600_6-13	UCSB MIL
1983	1" = 36,000'	ami-la-83_11622 and _11638	UCSB MIL
1989	1" = 31,680'	napp_1840-162	UCSB MIL
1994	1" = 40,000'	napp-2c_6858-83	UCSB MIL
1994	Unknown	May	Google Earth Pro
1999	Unknown	September	Google Earth Pro
2003	Unknown	March	Google Earth Pro
2004	Unknown	February	Google Earth Pro
2005	Unknown	November	Google Earth Pro
2006	Unknown	March	Google Earth Pro
2007	1" = 24,000'	eag-la-07_4473	UCSB MIL
2011	Unknown	March	Google Earth Pro
2013	Unknown	April	Google Earth Pro
2015	Unknown	February	Google Earth Pro
2016	Unknown	October	Google Earth Pro
2017	Unknown	December	Google Earth Pro

1.4 GEOLOGIC CONDITIONS

1.4.1 Regional Geology and Structure

The Project Site is located within the Los Angeles (L.A.) Basin, part of the Peninsular Ranges Geomorphic Province in Southern California, which is characterized by northwest-trending mountains and valleys extending north from the southern tip of Baja California to the Transverse Ranges. The Peninsular Ranges stretch approximately 895 miles: approximately 150 miles in California and approximately 746 miles south of the United States – Mexico border, creating the peninsula of Baja California. The Peninsular Ranges province is bounded on the north by the Transverse Ranges, on the east by the Colorado Desert Geomorphic Province, and on the west by the continental shelf (Harden, 2004).

Geologically, the Peninsular Ranges province consists of a series of northwest trending mountain ranges that are separated by long valleys. The L.A. Basin is one of these valleys that was formed by faults that branch off the San Andreas fault (CGS, 2015). The majority of the Peninsular Ranges are composed of Mesozoic plutonic rocks and are part of a great chain of granitic rocks that extends north from Alaska to the tip of Baja California, Mexico in the south.

The proposed pipeline is located in the L.A. Basin, one of the largest valleys in the Peninsular Ranges. Like other Southern California basins, the L.A. Basin was formed by crust that was tectonically depressed in the center through the process of down-buckling and pushed up on all sides to create a low-lying bowl or basin surrounded by mountain ranges and hills that were tectonically uplifted. The L.A. Basin is crisscrossed by east-west trending reverse faults and folds that intersect northwest-trending right-lateral faults of the San Andreas fault system, including the Newport-Inglewood fault zone. These faults divide the L.A. Basin into four clearly defined blocks, placing the proposed pipeline route in the Long Beach-Wilmington block (Harden, 2004).

1.4.2 Site Geology

The majority of the Project Site is composed of Late Quaternary young alluvium and alluvial fan sedimentary deposits. Sedimentary deposits in the deepest parts of the L.A. Basin extend to depths of more than 30,000 feet in the vicinity of the confluence of the L.A. and Rio Hondo Rivers, near the City of South Gate, approximately four miles north of Paramount (CGS, 2016 and Yerkes et al, 1965). The site geology is shown on Figures 3a - Geology Map and 3b Key to Geology Map.

Young Alluvium, Unit 2 (Qya₂) Holocene and late Pleistocene alluvial deposits are poorly consolidated; poorly sorted; and permeable flood-plain deposits of soft clay, silt, and loose to moderately dense sand and silty sand. This sedimentary unit ranges from slightly consolidated to cemented and can be slightly to moderately desiccated. The upper surfaces of this unit are capped by slight to moderately developed pedogenic soil profiles (CGS, 2016). The pipeline encounters the surface exposure of Qya₂ in some or all of: PPC Line 12 segments 1 and 2; PPC Line 4, segments 3, 4, 5, 6, 7, and 8; and the new pipeline segment.

Young Alluvial Fan Deposits (Qyf) Undivided Holocene and late Pleistocene alluvial fan and valley deposits are composed of poorly consolidated and poorly sorted clay, sand, gravel, and cobble. The Qyf deposits typically have coarse-fine clast ratios. Upper surfaces of this unit are capped with slight to moderately developed pedogenic soil profiles. Young alluvial fan deposits are primarily exposed along some or all of the proposed pipeline along line 12, crude 244, segment 2; line 4, segments 3, 4, 7, and 8; and the new pipeline segment.

1.4.3 Soil Survey

Soil data for the Project area was obtained from the USDA Natural Resources Conservation Services (NRCS) soil survey website (NRCS, 2018). The proposed pipeline extends across 6 soils series units. Refer to Tables 2 and 3 below.

Table 2. Soil Units Along Pipeline Alignment

Soil Unit No.	Soil Unit Name
1000	Urban Land-Hueneme, Drained-San Emigdio Complex
1001	Urban Land-Metz-Pico Complex
1005	Urban Land-Biscailuz-Hueneme
1132	Urban Land-Thums-Windfetch Complex
1202	Urban Land
1261	Urban Land, Frequently Flooded

The extent of these soil units along the proposed pipeline alignment is shown on Figure 4 - Soil Survey Map. These soils have the following reported characteristics.

Table 3. Soil Survey Data

Soil Unit No.	Grain-Size (%) ¹			Plasticity Index (%) ¹	Liquid Limit (%) ¹	Ksat ^{1,2} (um/sec)	Corrosivity	
	Clay	Silt	Sand				Concrete	Steel
1000	8.6	25.4	66.0	5.0	19.3	42.6705	Low	Low
1001	5.4	17.3	77.3	3.0	11.3	79.8410	Low	NA
1005	18.5	38.9	42.6	12.2	29.9	20.1985	NA	NA
1132	33.0	33.2	33.9	23.2	44.5	5.4026	NA	NA
1202	5.3	14.8	79.9	2.6	8.6	79.5500	NA	NA
1261	NA	NA	NA	NA	NA	NA	Low	Low

Notes:

- 1 Run as all layers with an aggregation method of weighted average. When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component. Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness. The aggregation method "Weighted Average" computes a weighted average value for all components in the map unit. Percent composition is the weighting factor. The result returned by this aggregation method represents a weighted average value of the corresponding attribute throughout the map unit Obtained from NRCS (2018).

- 2 Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields. For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used. The numeric Ksat values have been grouped according to standard Ksat class limits (NRCS, 2018).
- um micrometers
NA Not Available

1.4.4 Groundwater

Based on the review of the County of Los Angeles Department of Public Works *Hydrologic Report (2016 - 2017)* groundwater monitoring well data in the vicinity of the proposed pipeline reports that the depth to first groundwater in the area of the Project Site alignment is estimated to be 26.6 (well number 0460K) to 88.8 (well number 0906D) feet below ground surface (ft bgs). Depending on the proximity of nearby wells, actual groundwater depths at the Project Site may vary significantly from those noted. Although depth to ground water is estimated to be 25 ft bgs or more, there is the possibility for perched groundwater tables to be encountered prior to the actual ground water table due to the presence of cohesive soils acting as an aquitard preventing vertical migration of water.

1.4.5 Regional Faulting and Seismicity

The Project area is located in Seismic Zone 4, which has the greatest earthquake potential in the state of California. A Regional Fault Location Map, showing the general location of significant faults within 100 Kilometer or 62 miles from the Project Site is included as Figure 5 - Regional Fault Map. There are 201 named and unnamed faults within the search radius shown on Figure 5. Maximum earthquake magnitudes and distances of major Holocene faults from the Project Site are also listed in Table 4. The distance values in the table are based on the distance from the approximate center of the proposed pipeline route. Seismological data such as maximum historic earthquake on that fault and geologic data such as fault length and fault displacement parameters are also included. The faults listed are considered to have the greatest potential for impacting the Project Site if they were to rupture.

Of the faults listed in Table 4, the Newport-Inglewood and San Andreas fault zones have the greatest potential to impact the Project Site based on their proximity to the proposed alignment, potential maximum ground acceleration, and these faults are considered to be active or potentially active. A brief description of each of these faults is provided below based on information obtained from California Division of Mining and Geology (CDMG, 1996).

Table 4. Significant Quaternary Faults Located Within 100 Kilometers of the Project Site

Fault Name	Distance From Site		Fault Data		Upper Bound Earthquake ^{1, 2, and 3} (M_w)
	Miles ¹	Kilometers ¹	Length ¹ (ft)	Slip rate ^{1, 2, and 3} (mm/yr)	
Elsinore Fault Zone	22	35	590,551	4.0	6.5 - 7.5
Newport-Inglewood Fault Zone	1	2	246,063	0.6	6.0 - 7.4
Newport-Inglewood-Rose Canyon Fault Zone	1	2	295,276	0.8 - 2.1	6.0 - 7.2
Oak Ridge Fault (Pico Thrust)	53	85	295,276	3.5 - 6	6.5 - 7.5
Palos Verdes Fault Zone (THUMS-Huntington Beach)	5	8	262,467	0.1 - 3.0	6.0 - 7.0
San Andreas Fault Zone	40	65	3,937,008	20 - 35	6.8 - 8.0
San Cayento Fault Zone	50	80	147,638	1.3 - 9	6.5 - 7.3
San Jacinto Fault Zone	37	60	688,976	7 - 17	6.5 - 7.5
Santa Cruz-Santa Catalina	34	55	196,850	NA	6.5 - 7.3
Sierra Madre Fault Zone	19	30	180,446	0.36 - 4	6.0 - 7.0
Simi-Santa Rose Fault Zone	37	60	131,234	NA	NA

Notes:

- 1 USGS Fault Map
- 2 CDMG and Peterson, et al., 1996 (CGS Open-File Report 96-08)
- 3 http://www.conservation.ca.gov/cgs/rghm/psha/ofr9608/Pages/a_faults.aspx
 Southern California Earthquake Data Center (<http://scedc.caltech.edu/significant/hosgri.html> and <http://scedc.caltech.edu/significant/index.html>)
- ft feet
- mm/yr millimeters per year
- M_w Moment Magnitude
- NA Not Available

Newport-Inglewood Fault Zone. The Newport-Inglewood Fault zone is an active fault system that has an estimated overall length of about 46.6 miles (75 km). The fault system is defined northwest and southeast of the proposed pipeline near PPC Line 4, Segment 6. The Newport-Inglewood Fault has an upperbound earthquake of 6.0 to 7.4, average slip rate of 0.6 mm/yr, and an unknown recurrence interval.

San Andreas Fault. The San Andreas fault system is perhaps the most significant fault zone in California because it has been the source of several major earthquakes during recent historic times: most notably, the 1857 Fort Tejon, 1906 San Francisco, and 1989 Loma Prieta earthquakes. The San Andreas Fault is believed to have an estimated average slip rate of 20 - 35 mm/yr. The M_w earthquake is 6.8 - 8.0, and a recurrence interval of 25 - 550 years, depending on the segment of the fault that ruptures.

1.4.6 Preliminary Building Code Seismic Design Parameter

Preliminary seismic design parameters for the area of the Project Site were performed by Padre using the USGS Seismic Design Map web-based computer software for building codes

2015 NEHRP Provisions - BETA, 2010 ASCE 7 (with March 2013 errata), and 2012/12 IBC (USGS, 2017). Design parameters were calculated for the southwest (33.812208°N, 118.232686°W), middle (33.848823°N, 118.191207°W), and northeast (33.899305°N, 118.146668°W) sections of the pipeline to provide the range of values that may be appropriate for use in design. Based on Padre’s review of historical data and previous reports, soil classified as Site Class C or D for risk categories I, II, and III could be encountered during construction, as geologic conditions vary along the route of the pipeline. Table 5 - Building Code Seismic Ground Motion Parameters provides site design parameters for soils found at Site Classes C and D.

Table 5. Building Code Seismic Ground Motion Parameters

Building Code	Seismic Parameter	Site Class C value (g)			Site Class D value (g)		
		Pipeline - Southwest	Pipeline - Middle	Pipeline - Northeast	Pipeline - Southwest	Pipeline - Middle	Pipeline - Northeast
2010 ASCE 7 (with March 2013 errata) and 2012/2015 International Building Code	S _s	1.636	1.650	1.772	1.636	1.650	1.772
	S _{MS}	1.636	1.650	1.772	1.636	1.650	1.772
	S _{DS}	1.091	1.100	1.181	1.091	1.100	1.181
	S ₁	0.614	0.608	0.633	0.614	0.608	0.633
	S _{M1}	0.798	0.791	0.823	0.921	0.912	0.949
	S _{D1}	0.532	0.527	0.548	0.614	0.608	0.633
2015 NEHRP Provisions (BETA)	S _s	1.691	1.661	1.614	1.691	1.661	1.614
	S _{MS}	2.029	1.993	1.937	2.029	1.993	1.937
	S _{DS}	1.353	1.329	1.292	1.353	1.329	1.292
	S ₁	0.612	0.596	0.579	0.612	0.596	0.579
	S _{M1}	0.857	0.836	0.823	1.041	1.015	0.996
	S _{D1}	0.571	0.558	0.548	0.694	0.677	0.664

2.0 GEOLOGIC HAZARDS ANALYSIS

2.1 GENERAL

The Project Site is located within the seismically active Peninsular Ranges geomorphic province that was shaped by tectonic folding and faulting that continues to affect the landscape of the L.A. Basin. Geologic hazards such as fault rupture; seismic shaking; liquefaction; volcanic eruptions; seismically-induced settlement; landslides and slope stability; expansive soils; subsidence; flood hazard; dam inundation; tsunami and seiche; naturally occurring asbestos; and radon gas are known hazards in the Peninsular Ranges. The potential for these hazards to affect the proposed pipeline during and post construction are discussed below (Figure 5 – Regional Fault Map and 6 - Geologic Hazard Map).

2.2 FAULT RUPTURE HAZARD EVALUATION

In 1972 the State of California passed the Alquist-Priolo Earthquake Fault Zoning Act (AP Act) to mitigate the hazard of surface faulting to structures utilized for human occupancy. The primary purpose of the AP Act is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The AP Act defines three categories of fault activity; active (demonstrated movement within the last 11,000 years), potentially active (movement within the past 11,000 to 2,000,000 years), and inactive (no movement within the past 2,000,000 years).

Since 1972, the California Geological Survey (CGS, formerly the California Division of Mines and Geology) has issued a series of 1"=2,000' scale maps delineating Earthquake Fault Zones (EFZs). Structures proposed within mapped EFZs require additional geologic investigations to demonstrate that the structures will not be constructed across the trends of active faults. If an active fault is identified within the boundaries of the Project Site, the proposed structures must be set back generally a distance of 50 feet on either side of the identified fault location. The CGS mapping program is ongoing, and areas not currently identified as being within an EFZ may be included at some later time.

Although the AP Act was designed for structures intended for human occupancy and not pipelines, it should be noted that the proposed pipeline alignment does not intersect an identified EFZ at this time; however, the active Newport-Inglewood fault and EFZ are less than two miles southeast from the proposed pipeline alignment, trending in the direction of the alignment. Therefore, it is Padre's opinion that the potential for damage to the proposed pipeline at the Project Site due to fault rupture is high.

2.3 SEISMIC SHAKING

The Project Site is located within a seismically active region, and the proposed pipeline will likely be subjected to seismic shaking during the life of the Project. Significant faults with historic seismicity include the Newport-Inglewood, Newport-Inglewood-Rose Canyon, Elsinore, Oak Ridge, Palos Verdes (THUMS-Huntington Beach), San Cayento, San Jacinto, Santa Cruz-Santa Catalina, Sierra Madre, Simi-Santa Rosa, and San Andreas Fault systems. Acceleration due to seismic shaking is generally expressed as a percent of the force of gravity, and probabilistic site parameters generated by the USGS Earthquake Hazards Program indicate peak ground accelerations along the alignment ranged from 1.041g (2 percent probability of exceedance in 50 years, S_{M1}) to 0.694g (10 percent probability of exceedance in 50 years, S_{D1}). Peak ground acceleration (pga) values were calculated using the USGS Earthquake Hazards Program, (Beta) - Unified Hazard Tool. Pga values were calculated for the southwest, middle, and northeast coordinate locations that were used in this report to calculate Building Code Seismic Design Parameters. The greatest pga value for the three locations is stated.

2.4 LIQUEFACTION

Liquefaction is defined as the sudden loss of soil shear strength due to a rapid increase of soil pore water pressures caused by cyclic loading from a seismic event. In simple terms, it means that a liquefied soil acts more like a fluid than a solid when shaken during an earthquake. For liquefaction to occur, the following conditions are necessary:

- Granular soils (sand, silty sand, sandy silt, and some gravels);
- A high groundwater table; and
- A low density of the granular soils.

The California Geologic Survey (CGS, 2018 and 1999) published *Earthquake Zones of Required Investigation for Torrance, Inglewood, South Gate, and Long Beach Quadrangles* and Tetra Tech issued a report called *City of Los Angeles Local Hazard Mitigation Plan – June 2017* that cover the region of the project area. The purpose of these documents is to make property owners aware of potential natural hazards and to establish requirements for further study of new developments intended for human occupancy. While this does not directly apply to pipeline construction it does provide a good basis for identifying potential liquefaction risks along the alignment. Padre has reviewed these evaluations of seismic hazards related to liquefaction and accompanying published maps. Both reports mapped the pipeline route area as susceptible to liquefaction hazards in the event of an earthquake. Groundwater data suggests that shallow groundwater is estimated to be present at depths greater than 25 feet along the alignment which would preclude liquefaction from occurring above that depth. Liquefaction of soils below 25 feet may result in surface manifestations that could impact the pipeline. Based on a review of both documents and available groundwater data, liquefaction due to ground shaking along the proposed alignment is anticipated to be moderate to high which is not a unique condition for the overall project area (Figure 6).

2.5 SEISMICALLY-INDUCED SETTLEMENT

Seismically-induced settlement refers to settlement of unsaturated granular material as a result of densification and particle rearrangement due to earthquake shaking. Seismically induced settlement differs from settlement resulting from liquefaction because there is no buildup of excess pore water pressure during the seismic shaking.

Due to the location of the pipeline alignment with the seismically active region of southern California and the presence of unsaturated granular soil, Padre is of the opinion that there is a moderate potential for seismically-induced settlement to adversely affect the proposed alignment. Absent site-specific subsurface exploration and laboratory analyses, it is not possible to estimate the magnitude of that potential settlement.

2.6 LANDSLIDING AND SLOPE STABILITY

Landslides are defined as the rapid downslope movement of rock or soil, more generally defined as downslope movement (Harden, 2004). Downslope movement can be initiated by

ground motion, saturated soils, or the processes of weathering and erosion. Review of the CGS earthquake-induced landslide hazard reports does not indicate any areas susceptible to land sliding along the alignment. In addition, the site reconnaissance of the pipeline route performed by Padre observed topography to be relatively flat throughout the area. Based on that data it is Padre's opinion that landslide risks and slope instability risks are very low along the pipeline route. In general, there is a lack of slopes along the pipeline route in the L.A. Basin, which has relatively flat and low-lying topography.

2.7 EXPANSIVE SOILS

USDA soil survey data indicates the proposed pipeline alignment is generally underlain by sand and silty sands and gravels, which are not anticipated to have a high shrink-swell potential. Based on that information it is our opinion that the potential for expansive soils to impact the project is low.

2.8 SUBSIDENCE

Land subsidence is primarily caused by removal of fluids through oil and gas production, groundwater extraction (regional lowering of deeper aquifers, not localized dewatering-induced settlement), compaction of clays and organic layers, and tectonic activity. Subsidence generally occurs fairly uniformly with changes occurring gradually over relatively long distances. Our review of the Energy Resources section of the City of Long Beach website (2018) indicates subsidence has presently been arrested and under constant monitoring by the Long Beach Oil and Gas Department (LBOGD). Subsidence should be considered a potential hazard due to continued oil and gas production in the area although it is not a unique hazard to the overall project area. Padre is of the opinion that the potential for damage due to subsidence is low as long as there is continued constant monitoring and control by the LBOGD.

2.9 FLOOD HAZARD

The Project Site is located on relatively flat terrain. According to the Federal Emergency Management Agency (FEMA) Map, Community Panel Nos. 06037C1820, 06037C1955F, 06037C1960F, 06037C1962F, and 06037C1965F dated September 26, 2008, the majority of the Project Site is mapped as being located inside of a flood zone designation. The proposed pipeline crosses mapped Flood Zones: A; X; and a special flood hazard area (SFHA) subject to inundation by the 1 percent annual chance of flood. The 1 percent annual chance flood (100-year flood or base flood), is the flood that has a 1 percent chance of being equaled or exceeded in any given year. Flood Zone A is defined as a special flood hazard area subject to inundation by the 1 percent annual chance flood with no base flood elevations having been determined. Flood Zone X is defined as areas determined to have 0.2 percent annual chance of flood; areas of 1 percent annual chance of flood with average depths of less than one foot or with drainage areas less than one square mile; and areas protected by levees from 1 percent annual chance of flooding (FEMA, 2008). Because this project consists of buried pipeline it is Padre's opinion that the risk of flooding to impact the project is low.

2.10 DAM INUNDATION

Catastrophic failure of dams is rare and is most likely to occur following significant seismic events. Inundation due to dam failure is considered unlikely in the event that a dam should fail in Los Angeles County. The nearest dams are located more than twenty miles north, northeast, and northwest of the Project Site crossing the Los Angeles River. According to the Hazard Mitigation Plan for the City of Los Angeles, no dams were identified within the study area or in proximity to cause primary inundation (Tetra Tech, 2017).

2.11 TSUNAMI AND SEICHE

Tsunamis are long-period sea waves generated by earthquakes or submarine landslides, while seiches are oscillations in large bodies of water such as lakes or reservoirs caused by earthquakes or landslides. The Project Site is located approximately one mile inland from the Pacific Ocean. Based on Padre's review of the California Emergency Management Agency, California Geologic Survey Tsunami Inundation Maps for Emergency Planning – Torrance/San Pedro Quadrangles for the proposed Project area, the proposed pipeline route is shown outside of the mapped inundation zone (CGS, 2002). It is Padre's opinion that the Project Site is not at risk for tsunami inundation and the hazard is low.

CGS does not address the possibility of seiches near the Project Site. As previously mentioned under the dam failure discussion, the nearest reservoir of significant size to the Project Site is over 20 miles away and presents a very low risk hazard to the Project Site. Therefore, the opinion of Padre that the potential for a seiche to affect the Project Site is very low.

2.12 NATURALLY OCCURRING ASBESTOS

Asbestos is a naturally occurring silicate mineral of the amphibole group that has historically been utilized for a variety of purposes including fireproofing due to its fibrous nature which allowed it to be woven into cloth and formed into various types of construction material. The mineral generally occurs in association with ultramafic rocks (igneous and metamorphic rocks with high iron and magnesium contents) and is a known carcinogen. According to the *Geologic Map of the Long Beach 30' x 60' Quadrangle, California Version 2.0* (CGS, 2016), there are no exposures of potentially asbestos-bearing ultramafic rocks located along the proposed pipeline alignment. Based on the distance of the proposed alignment from the nearest mapped former asbestos mine or reported asbestos occurrence on the USGS and CGS *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California Map*, Padre is of the opinion that the potential for exposure to naturally occurring asbestos materials at the Project Site is low (USGS, 2011).

2.13 RADON GAS POTENTIAL

Radon is a colorless, odorless, tasteless, and radioactive gas that is produced as a natural decay product of uranium. Because of its radioactivity, studies have shown that at elevated concentrations there is a link between radon and lung cancer. Persons living in a building with

elevated radon concentrations may have an increased risk of contracting lung cancer over a period of years.

Sections 307 and 309 of the Indoor Radon Abatement Act of 1988 (IRAA) directed the United States Environmental Protection Agency (U.S. EPA) to list and identify areas of the United States with the potential for elevated indoor radon levels. The U.S. EPA Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential:

- Zone 1 counties have a predicted average indoor radon screening level greater than four pCi/L (pico curies per liter) (red zones);
- Zone 2 counties have a predicted average indoor radon screening level between two and four pCi/L (orange zones); and
- Zone 3 counties have a predicted average indoor radon screening level less than two pCi/L (yellow zones).

According to the U.S. EPA Map of Radon Zones, the Project Site is located within Zone 2 of the U.S. EPA Map of Radon Zones. The potential for radon gas to affect the Project will be limited to enclosed structures (like manholes or valve vaults) along the proposed alignment.

2.14 VOLCANIC ACTIVITY

Volcanic eruptions have occurred in the western United States in historic times, most notably the Mt. Lassen, California, eruptions of 1914 to 1917 and Mt. St. Helens, Washington, in 1980. Currently, the USGS is monitoring an area of potential volcanic activity near Mammoth Lakes/Long Valley, California, which lies approximately 329 miles northeast of the Project Site. Mount Lassen and Mount Shasta are considered active and located northwest of the Project Site approximately 586 and 633 miles, respectively. Based on the distance of the Project Site from these volcanic areas, the potential for a volcanic eruption to affect the Project Site is considered very low.

3.0 CONCLUSIONS

The project consists primarily of existing underground steel piping that will be connected to approximately half a mile of new underground welded steel piping at the western end of the project. Our review of available documentation of the project area indicates that there may be more than a moderate potential risk for fault rupture, liquefaction and seismically-induced settlement.

The Project Site is not located within the boundaries of an Alquist-Priolo Earthquake Fault Zone at this time. While no mapped active faults are known to traverse the Project Site, segments of the Newport-Inglewood fault zone are mapped one to two miles on both sides of PPC line 4, segments 5, 6, and 7. The Newport-Inglewood fault is considered by CGS to be active. Pipeline safety design should consider the potential consequences of a fault rupture along the pipeline route.

Although the Project Site is located within an area susceptible to liquefaction and seismically-induced settlement we anticipate that distress to the pipeline in the event of an occurrence of either will likely be limited to locations where the pipeline is rigidly connected to another structure that could result in abrupt differential movement. It is our opinion that the welded steel pipeline will likely have enough flexibility to withstand gradual deformations over long distances.

The other natural occurrences that have less than a moderate risk to the project (expansive soils and subsidence) are considered to not pose a significant risk to the pipeline. Locally expansive soils, if present, may have some minor impact on subsurface vaults or valve boxes.

The findings and conclusions in this report identify potential geohazards that cannot be quantified and mitigated, if necessary, without a site-specific geotechnical study. A site-specific study is generally uncommon for the existing pipeline segments. For new pipeline construction a site-specific study is fairly common and would be beneficial if the owner determines that any of the geohazards identified significantly impact the design, construction or long-term integrity of the proposed improvements. A site-specific geotechnical study is typically performed for a project once a preliminary design (site development plan) has been completed. The geotechnical study will consist of a number of exploration locations (drill holes, cone penetration test soundings, or other methods) along the proposed alignment. Soil samples are collected and tested in the laboratory and the results of field and laboratory data are used by the geotechnical engineer to better address the potential impacts of the geohazards identified and to develop earthwork recommendations for the proposed pipeline design and construction. The potential geohazards identified in this report (if found to be present at locations along the proposed alignment) can typically be mitigated through ground improvement methods and design if necessary.

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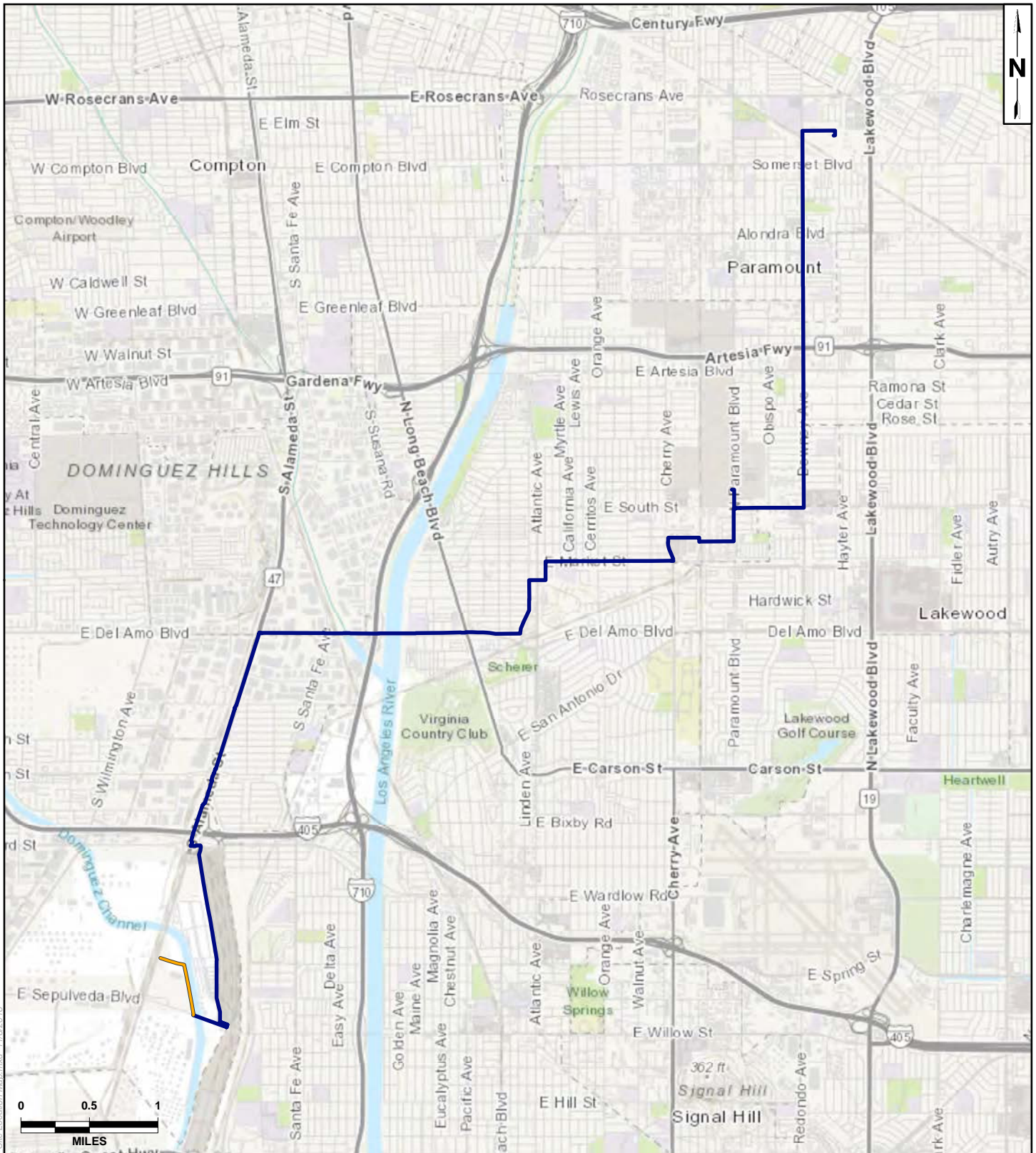
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_____ 1996. Probabilistic Seismic Hazard Assessment for the State of California, U.S. Geological Survey. Accessed at: <http://www.conservation.ca.gov/cgs/rghm/psha/ofr9608/Pages/Index.aspx>

_____ 2017. Earthquake Hazards Program, Beta - Unified Hazard Tool. Accessed at: <http://www.conservation.ca.gov/cgs/rghm/psha/ofr9608/Pages/Index.aspx>.

Yerkes, R.F., McCulloh, T.H., Schoellhamer, J.E., and Vedder, J.G., 1965. Geology of the Los Angeles Basin, California--an introduction: U.S. Geological Survey Professional Paper 420-A, 57 p.

FIGURES



LEGEND:
— New Pipeline Segment — Existing Pipeline to be Utilized

MAP EXTENT:



Source: Esri Online Basemap, DOGGR
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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SITE LOCATION MAP

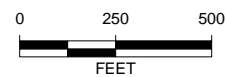
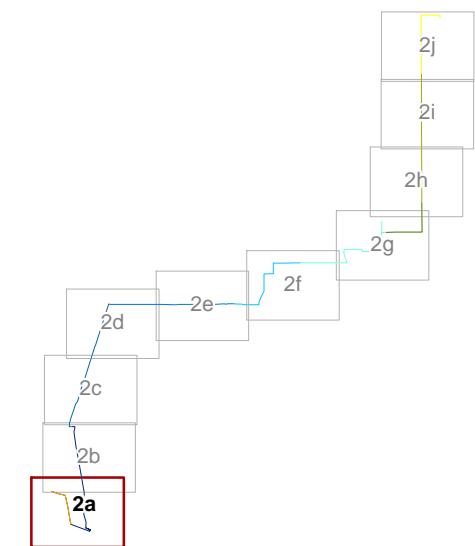
FIGURE
1



LEGEND:

- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



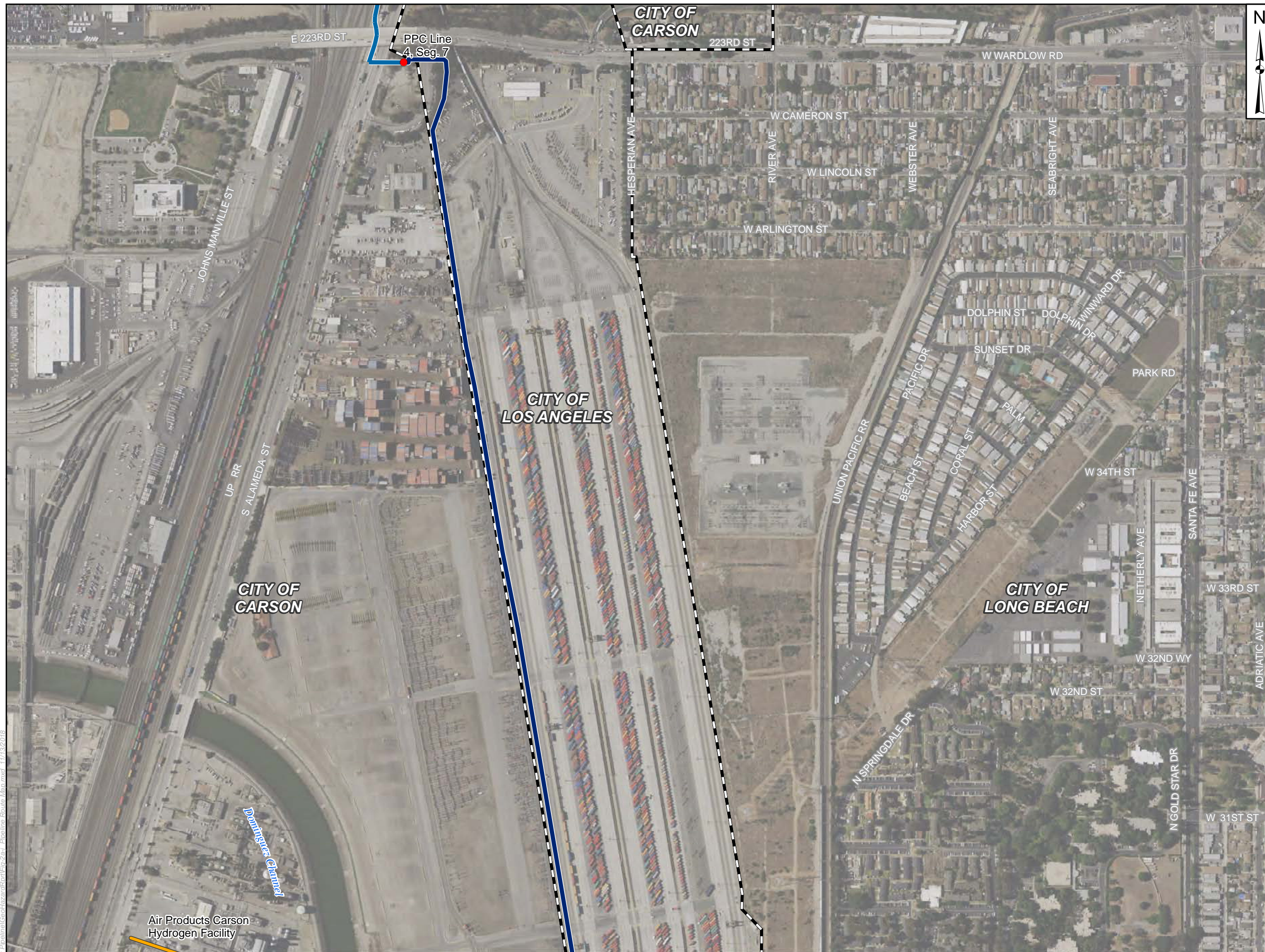
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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PIPELINE ROUTE MAP

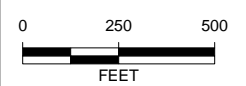
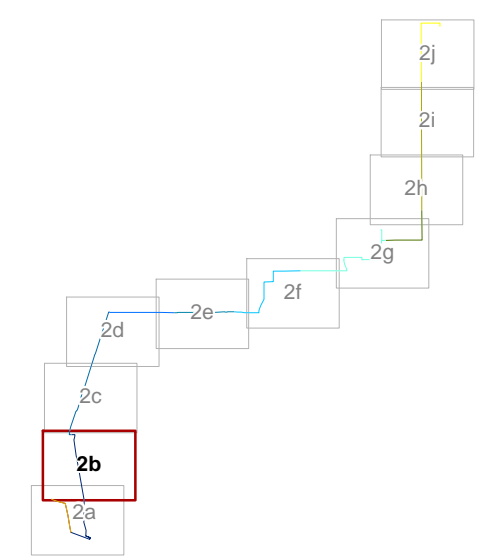
FIGURE 2a



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



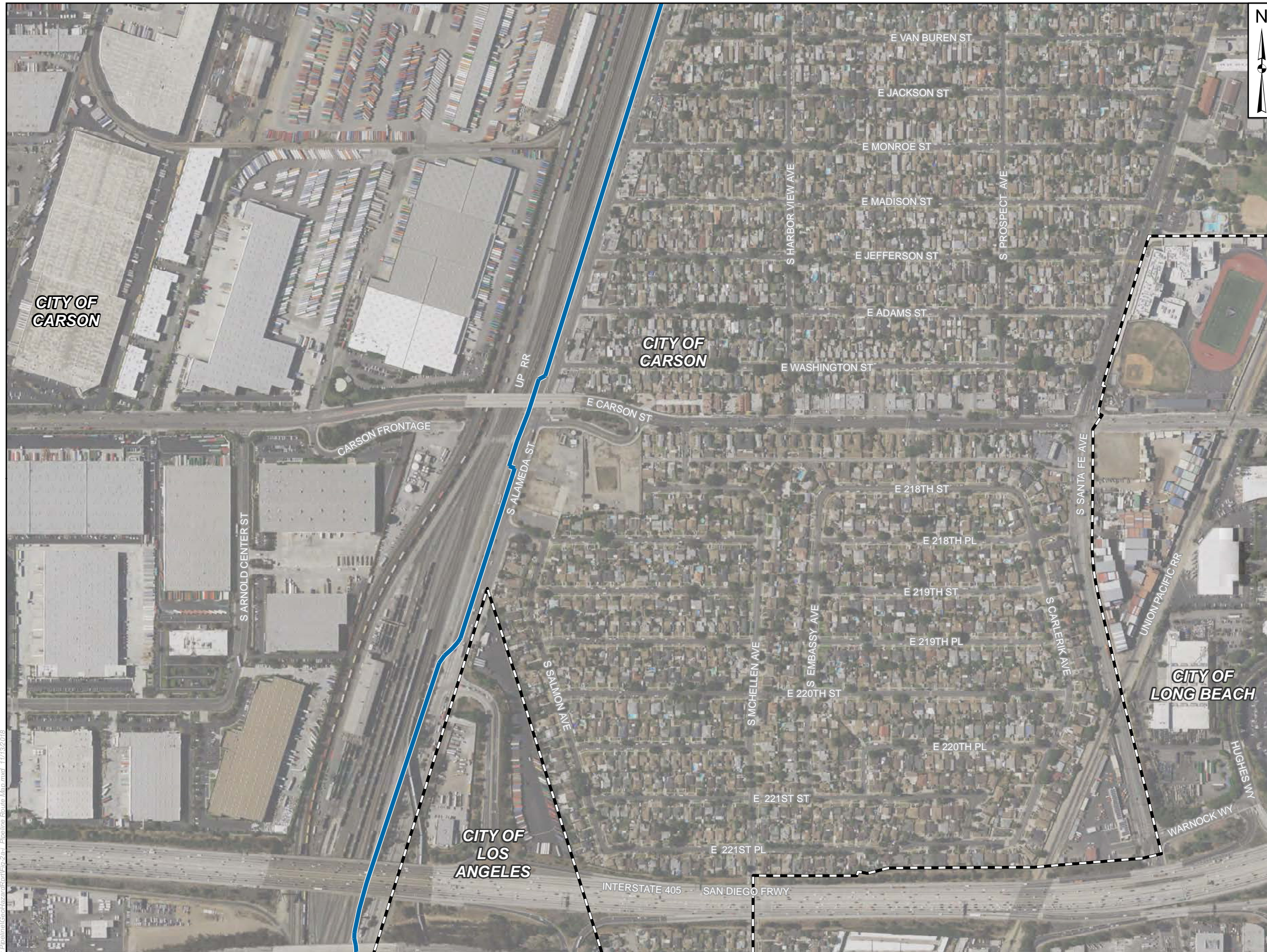
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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PIPELINE ROUTE MAP

FIGURE 2b



LEGEND:

City Boundary

New Pipeline Segment

Existing Pipeline Segment

PPC Line 12 Crude 1150, Seg. 2

PPC Line 12 Crude 244, Seg. 1

PPC Line 12 Crude 244, Seg. 2

PPC Line 4, Seg. 3

PPC Line 4, Seg. 4

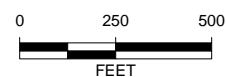
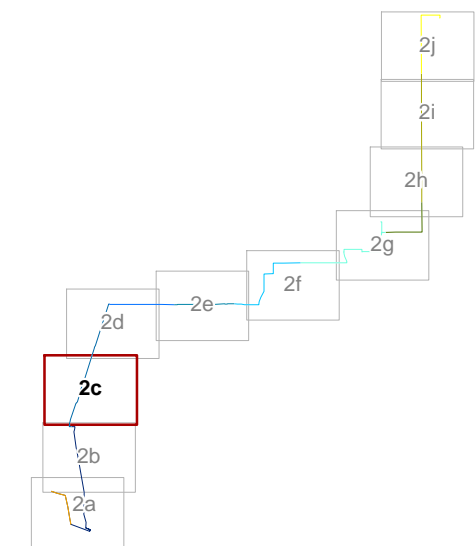
PPC Line 4, Seg. 5

PPC Line 4, Seg. 6

PPC Line 4, Seg. 7

PPC Line 4, Seg. 8

MAP EXTENT:



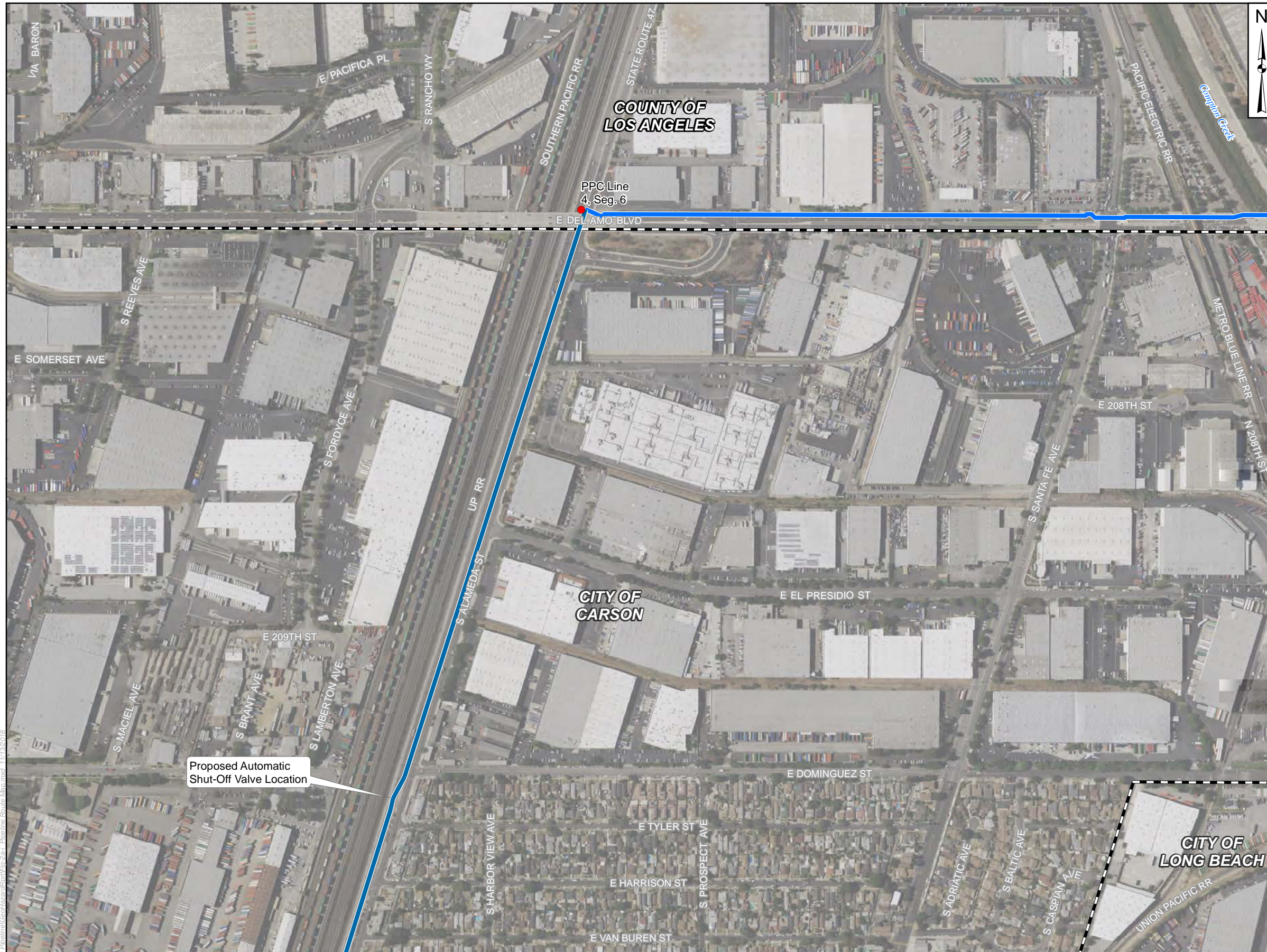
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

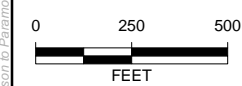
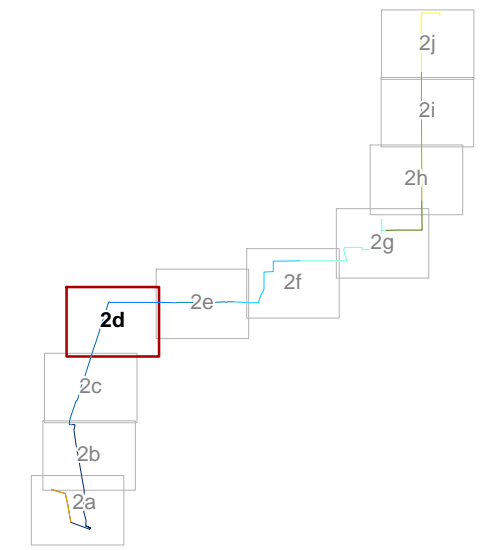
FIGURE 2c



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



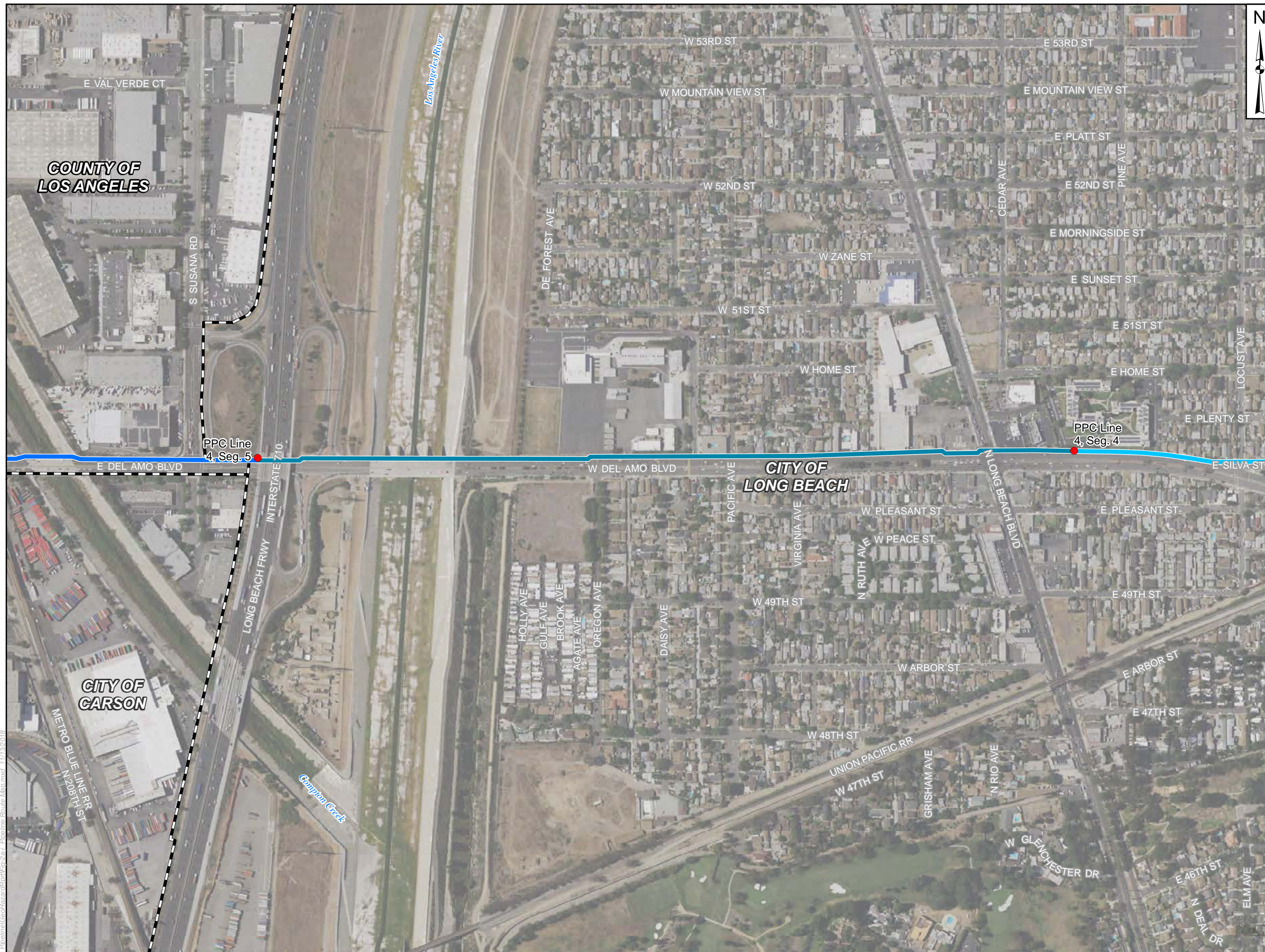
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

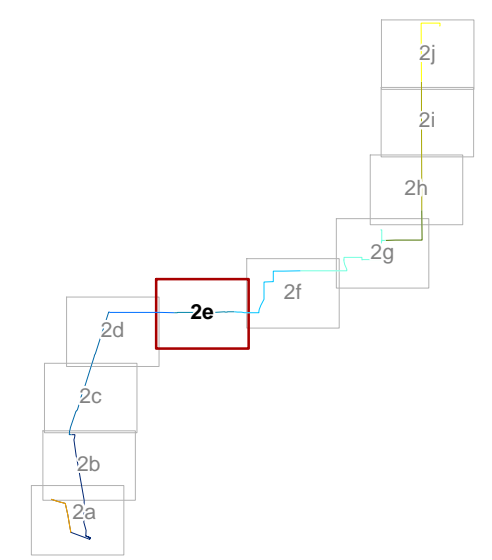
FIGURE
2d



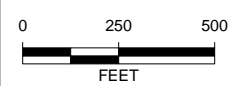
LEGEND:

- Segment Marker
- ▭ City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



Carson to Paramount Pipeline Geospatial Data - Pipeline Route Map.mxd - 1/15/2018

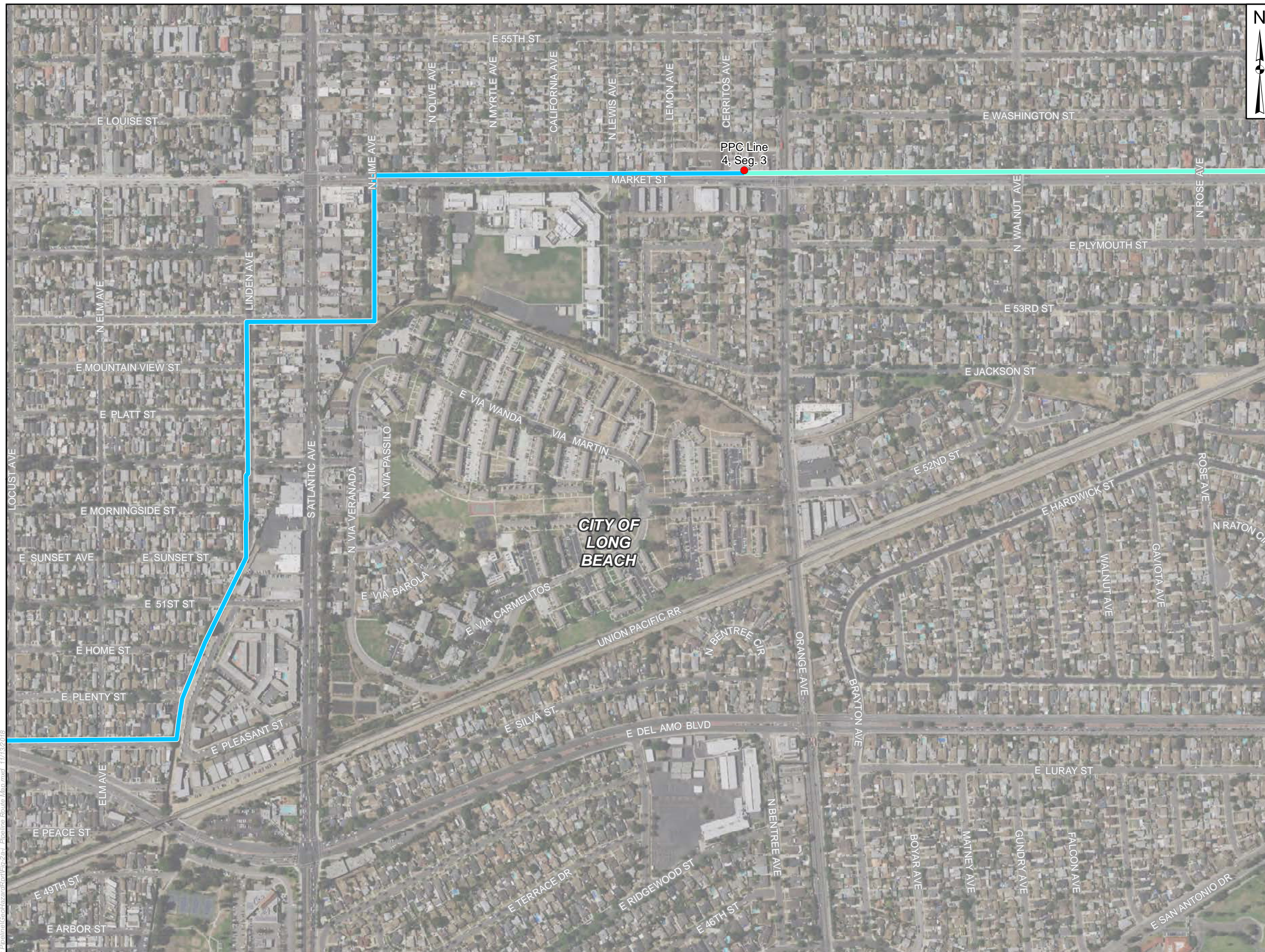


Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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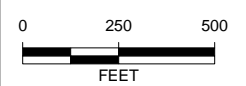
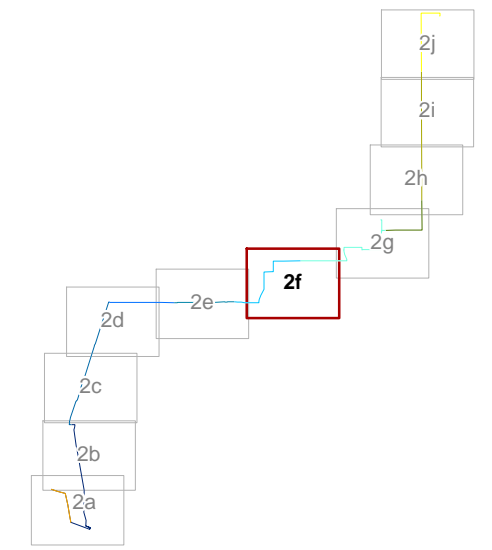
PIPELINE ROUTE MAP FIGURE 2e



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



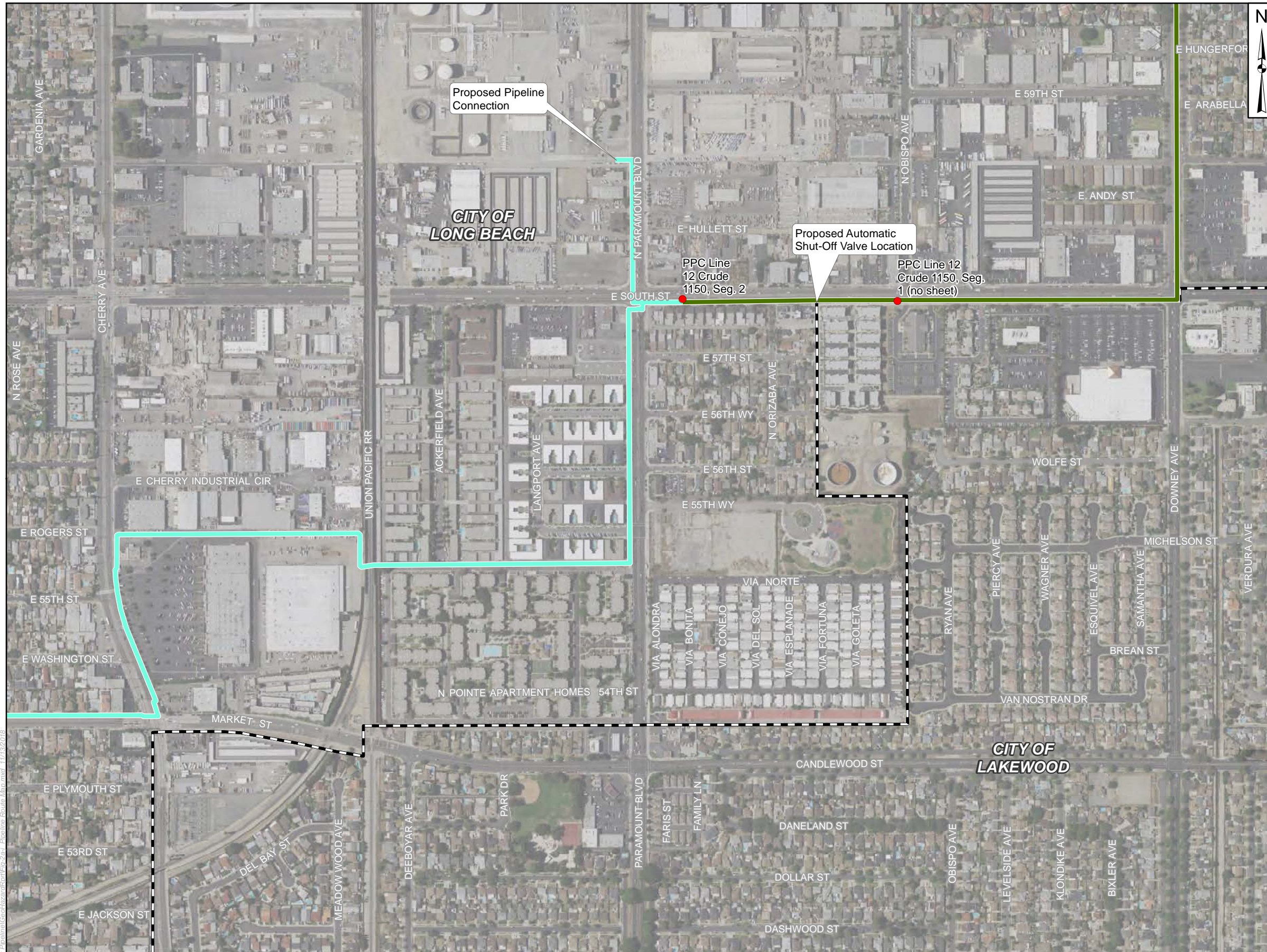
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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PIPELINE ROUTE MAP

FIGURE 2f



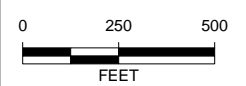
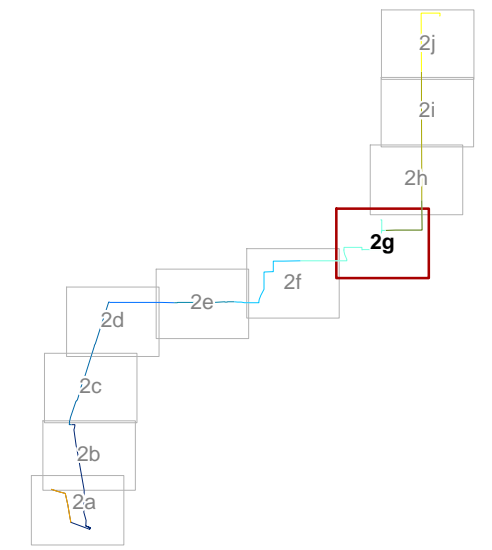
LEGEND:

- Segment Marker
- ▭ City Boundary
- New Pipeline Segment

Existing Pipeline Segment

- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:

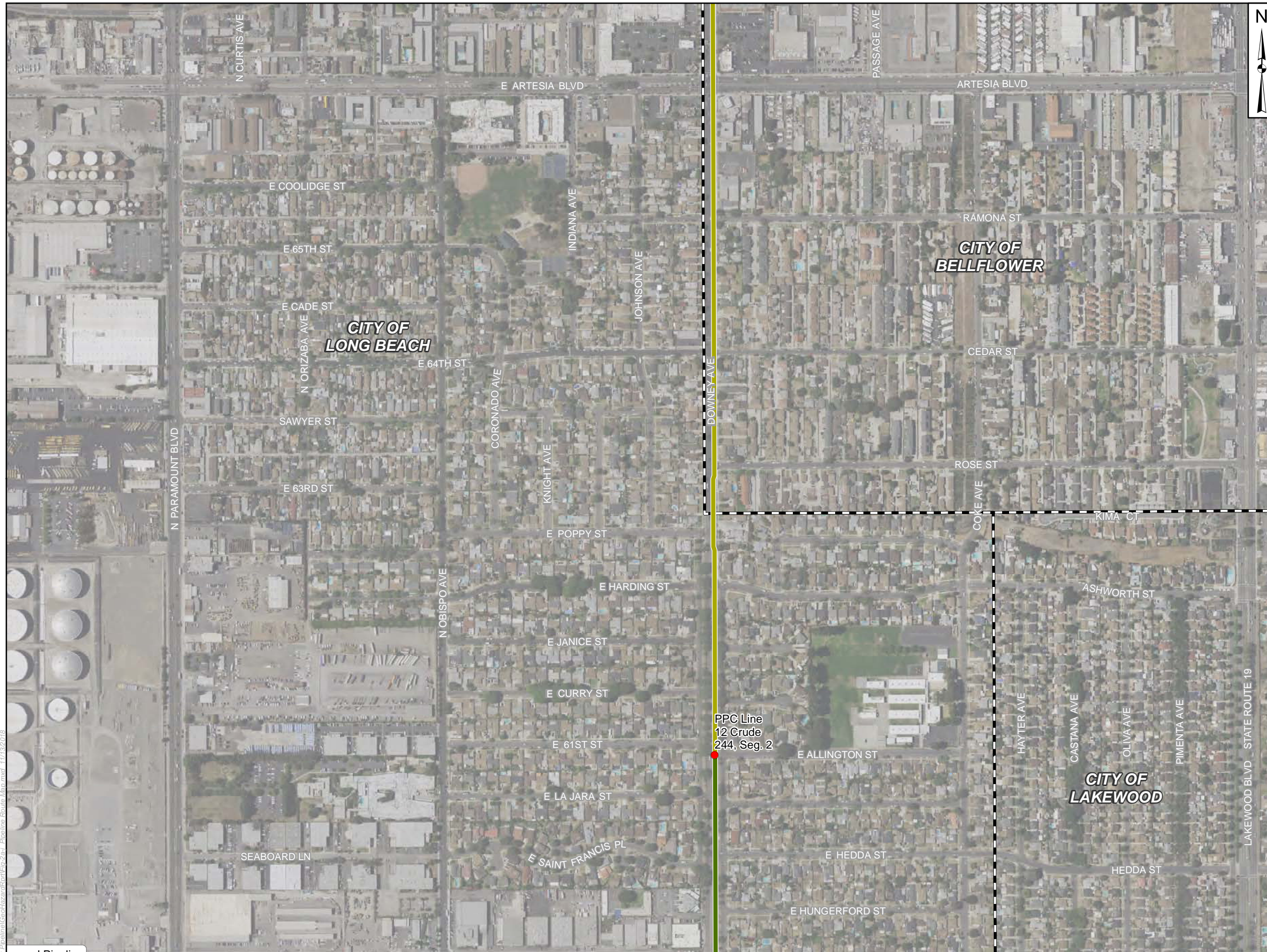


Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

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 DATE: November 2018

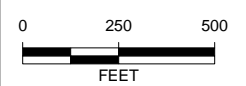
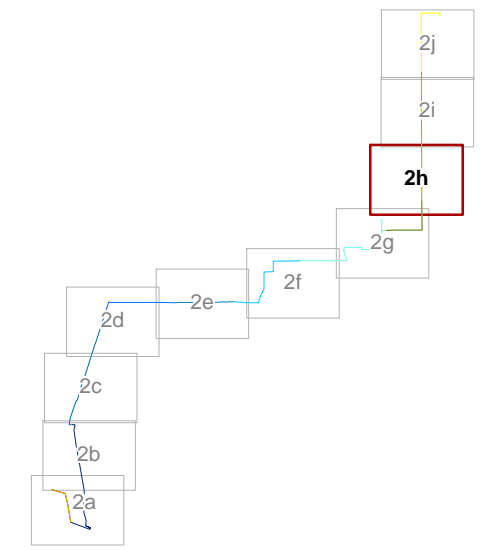
PIPELINE ROUTE MAP **FIGURE 2g**



LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



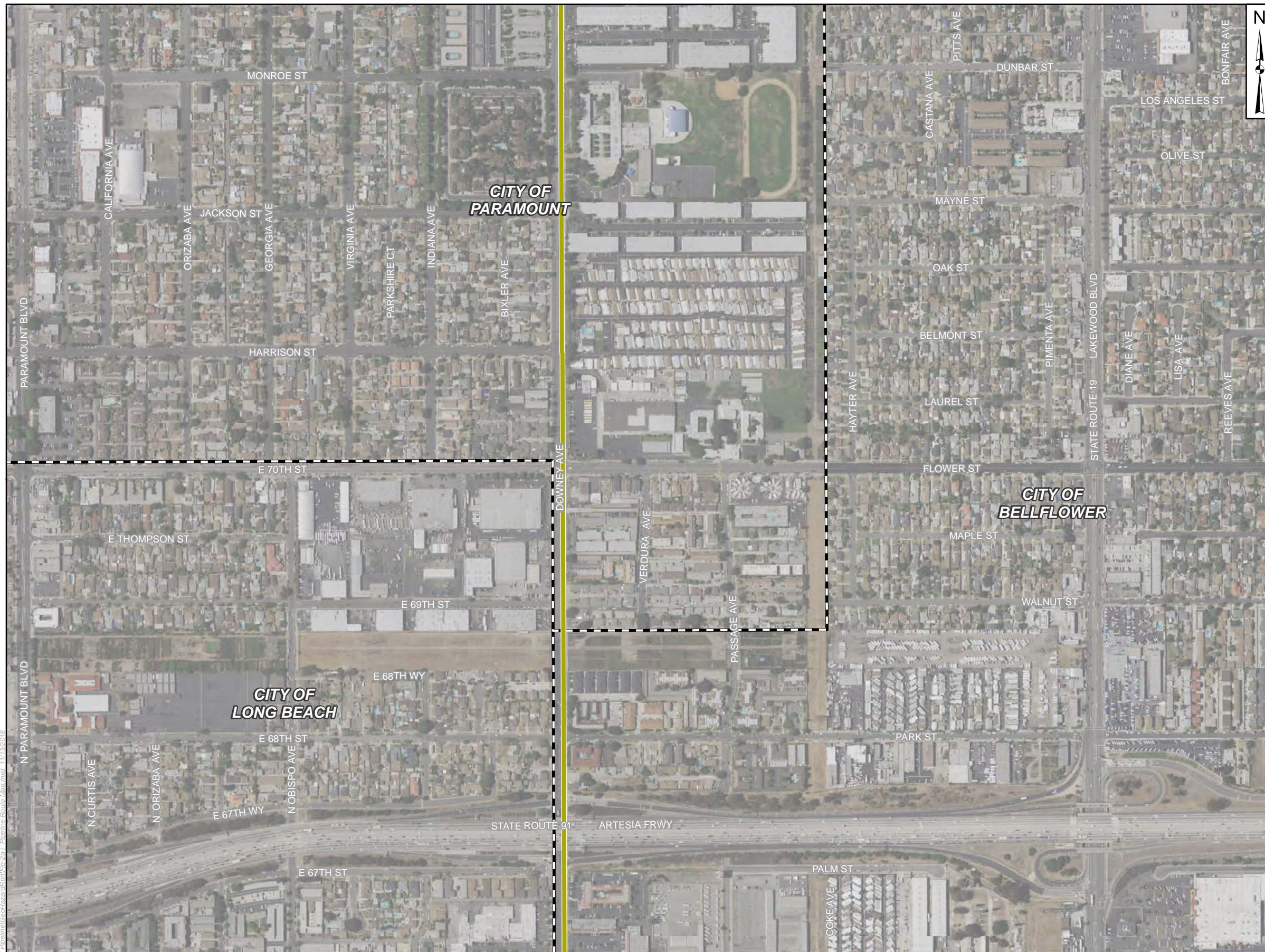
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
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PIPELINE ROUTE MAP

FIGURE 2h



LEGEND:

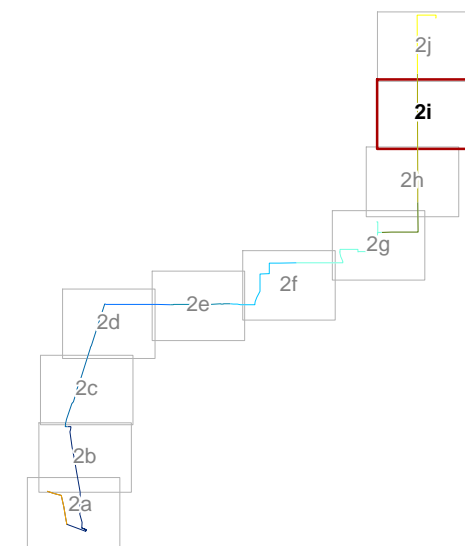
City Boundary

New Pipeline Segment

Existing Pipeline Segment

- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



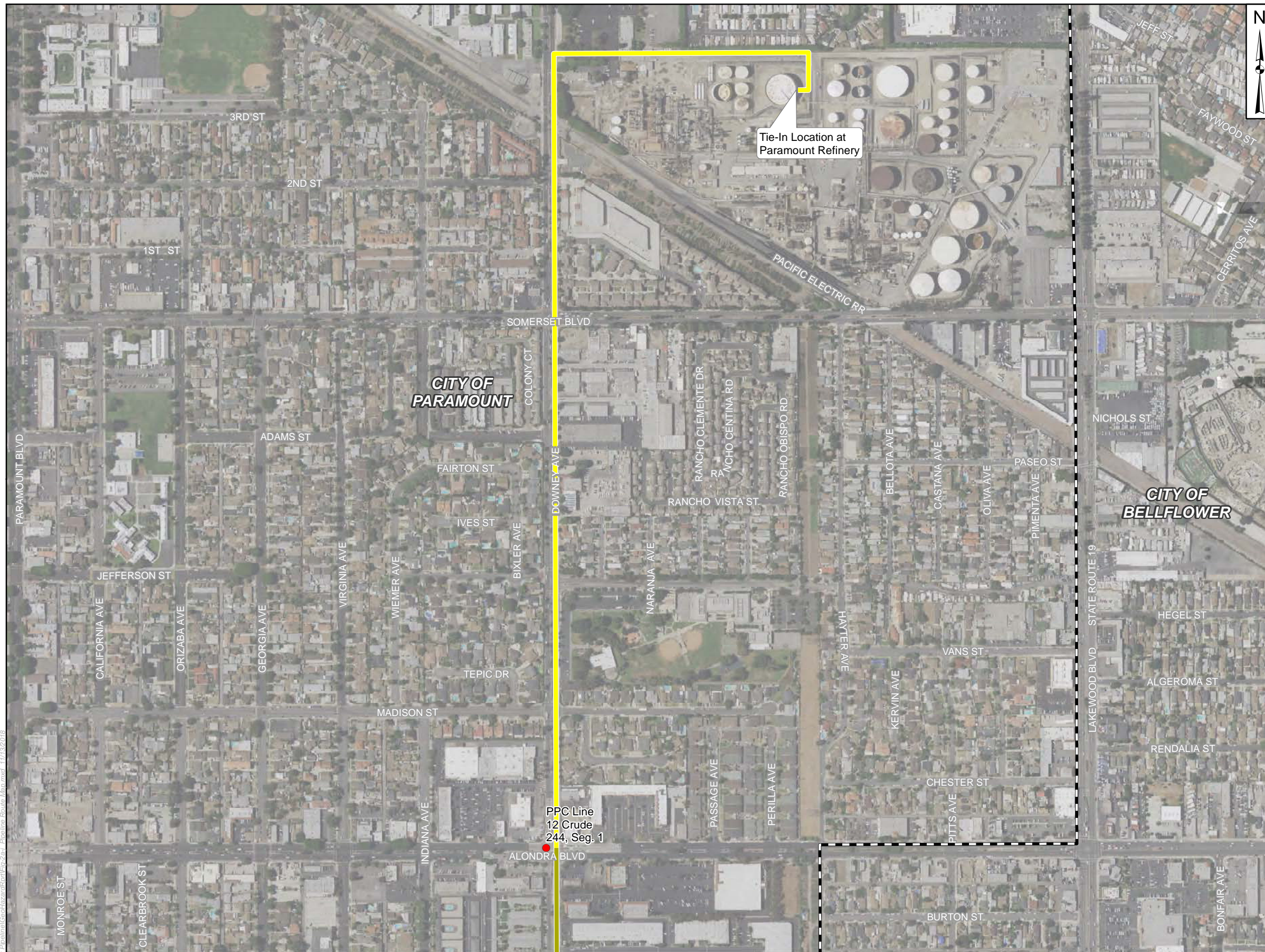
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

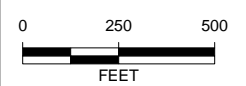
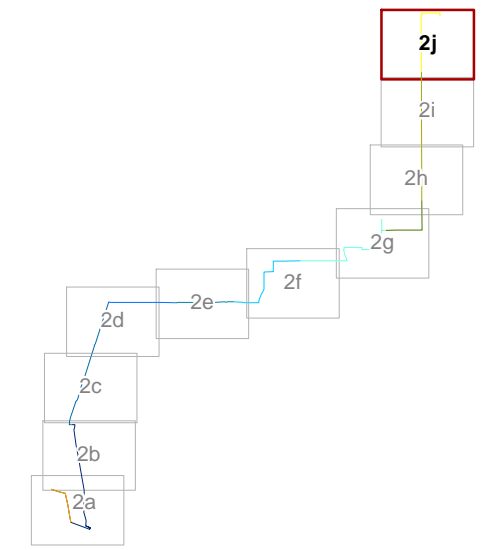
FIGURE 2i



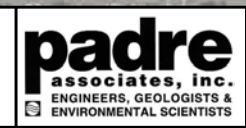
LEGEND:

- Segment Marker
- City Boundary
- New Pipeline Segment
- Existing Pipeline Segment**
- PPC Line 12 Crude 1150, Seg. 2
- PPC Line 12 Crude 244, Seg. 1
- PPC Line 12 Crude 244, Seg. 2
- PPC Line 4, Seg. 3
- PPC Line 4, Seg. 4
- PPC Line 4, Seg. 5
- PPC Line 4, Seg. 6
- PPC Line 4, Seg. 7
- PPC Line 4, Seg. 8

MAP EXTENT:



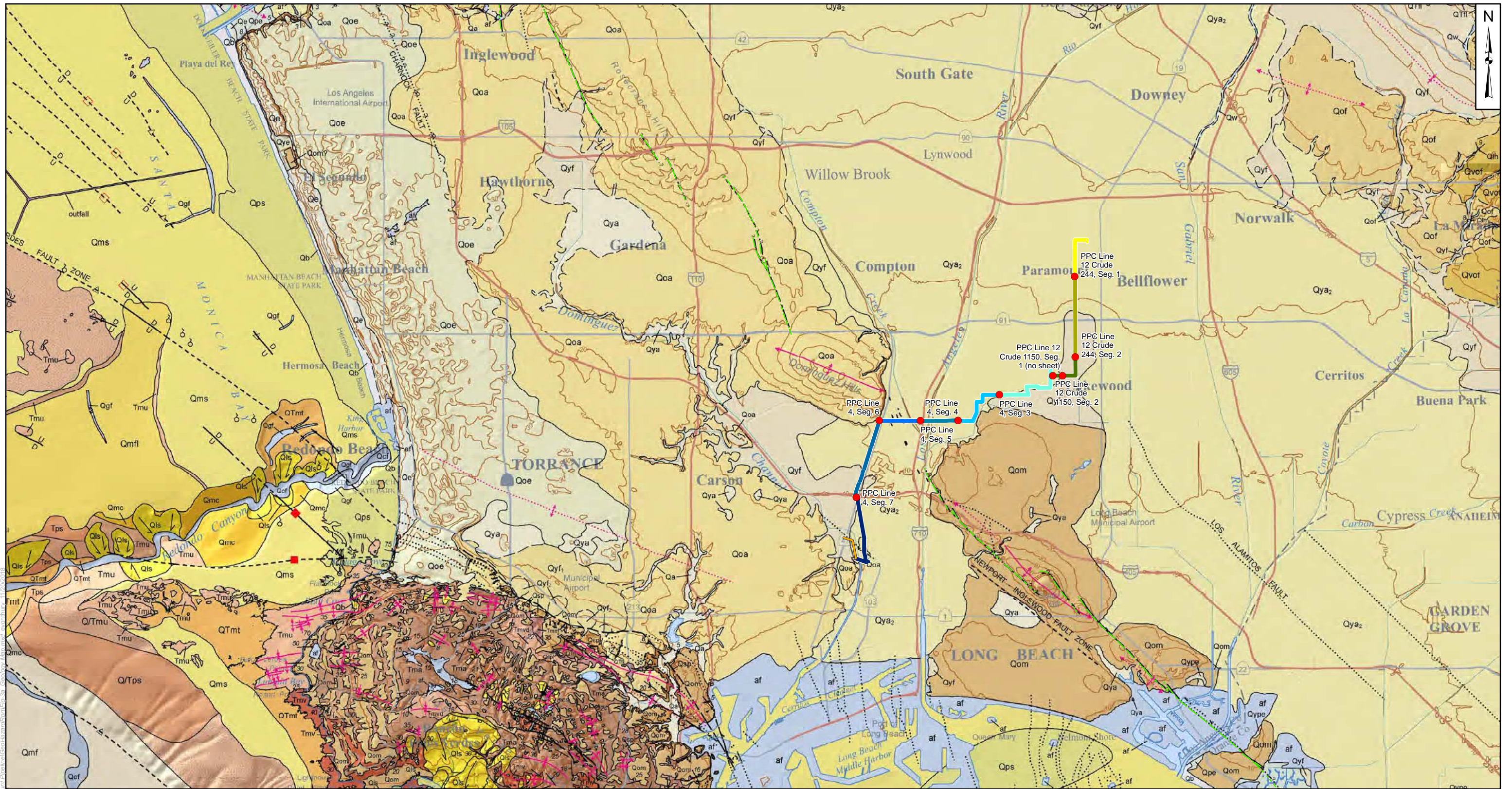
Source: Paramount Pipeline Co., NAIP Imagery 2016, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
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PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

PIPELINE ROUTE MAP

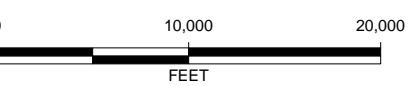
FIGURE 2j



LEGEND:

- | | | | |
|---|----------------------------------|--------------------|--------------------|
| Newport-Inglewood-Rose Canyon fault zone | Existing Pipeline Segment | PPC Line 4, Seg. 3 | PPC Line 4, Seg. 6 |
| Newport-Inglewood-Rose Canyon fault zone | PPC Line 12 Crude 1150, Seg. 2 | PPC Line 4, Seg. 4 | PPC Line 4, Seg. 7 |
| Segment Marker | PPC Line 12 Crude 244, Seg. 1 | PPC Line 4, Seg. 5 | PPC Line 4, Seg. 8 |
| New Pipeline Segment | PPC Line 12 Crude 244, Seg. 2 | | |

MAP EXTENT:



Sources: CGS (2016), Geologic map of the Long Beach 30' x 60' Quadrangle, California, Version 2.0: http://ftp.consrv.ca.gov/pub/dmg/rmp/Prelim_geo_pdf/Long_Beach_100k_v2.0_Map.pdf
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Abbreviation: Seg. = Segment
 Notes: 1. Geologic Map Key on Figure 3b.
 2. This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA
 PROJECT NUMBER: 1802-2611 DATE: November 2018

GEOLOGY MAP

FIGURE 3a

ABBREVIATED EXPLANATION
Approximate stratigraphic relationships only: see accompanying pamphlet for more detailed

		OFFSHORE REGION		
HOLOCENE	af	Artificial fill (only selected larger fills shown)		
	Qa	Alluvium	Qms	Unconsolidated shelf sediment
	Qw	Wash deposits	Qmf	Unconsolidated flank sediment
	Qb	Beach deposits	Qmb	Unconsolidated basin sediment
	Qe	Eolian deposits	Qmr	Unconsolidated ridge sediment
	Qpe	Paralic estuarine deposits	Qmc	Unconsolidated canyon sediment
	Qya	Young alluvium, undivided	Qgf	Gully fill
	Qya ₃	Young alluvium, Unit 3	Qcf	Canyon fill
	Qya ₂	Young alluvium, Unit 2		
	Qya ₁	Young alluvium, Unit 1		
QUATERNARY	Qyf	Young alluvial fan deposits, undivided	Qol	Overbank levee deposits
	Qyf ₂	Young alluvial fan deposits, Unit 2	Qmf	Fan deposits
	Qyf ₁	Young alluvial fan deposits, Unit 1		
	Qye	Young eolian deposits		
	Qype	Young paralic estuarine deposits		
	Qls	Landslide deposits (only selected larger landslides shown)	Qls	Landslide deposits
	Qoa	Old alluvium, undivided		
	Qof	Old alluvial fan deposits, undivided		
	Qoe	Old eolian deposits		
	Qom	Old shallow marine deposits on wave-cut surface		
PLEISTOCENE	Qvoa	Very old alluvium, undivided	Qps	Pleistocene sedimentary deposits, undivided
	Qvof	Very old alluvial fan deposits, undivided		
	Qlh	La Habra Formation		
		San Pedro Formation		
	Qsp	San Pedro Formation, undivided		
	Qsp1	Timms Point Silt Member		
	Qsm	Lomita Marl Member		
	Qtl	Inglewood Formation		
		Fernando Formation		
	QTRU	Upper Member	QTRU	Plio-Pleistocene terrace deposits
PLOCENE	QTRC	Lower Member	TRs	Pliocene sedimentary rocks, undivided*
	QTRC	QTRC = conglomerate		
		Puente Formation		
		Sycamore Canyon Member		
	TRnsc	TRnsc = conglomerate		
		Yorba Member		
		Soquel Member	TRU	Tertiary sedimentary and volcanic rocks, undivided*
	TRnV	La Vida Member	TRP	Miocene plutonic and hypabyssal rocks, undivided*
		Monterey Formation		
	TRmM	Malaga Mudstone Member		
MIOCENE	TRmV	Valmonte Diatomite Member	TRms	Miocene sedimentary rocks, undivided*
	TRmV	Volcanic rocks within the Monterey Formation	TRmv	Miocene volcanic rocks*
	TRmV	Altamira Shale Member		
MESOZOIC				
CRETACEOUS				
JURASSIC				
	mcs	Catalina Schist		
	TRs	Metamorphic rocks of pre-Late Cretaceous age*		


* Q/ = Map unit overlain by more than 3 meters of unconsolidated Quaternary sediment (i.e. Q/TRms)

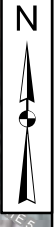
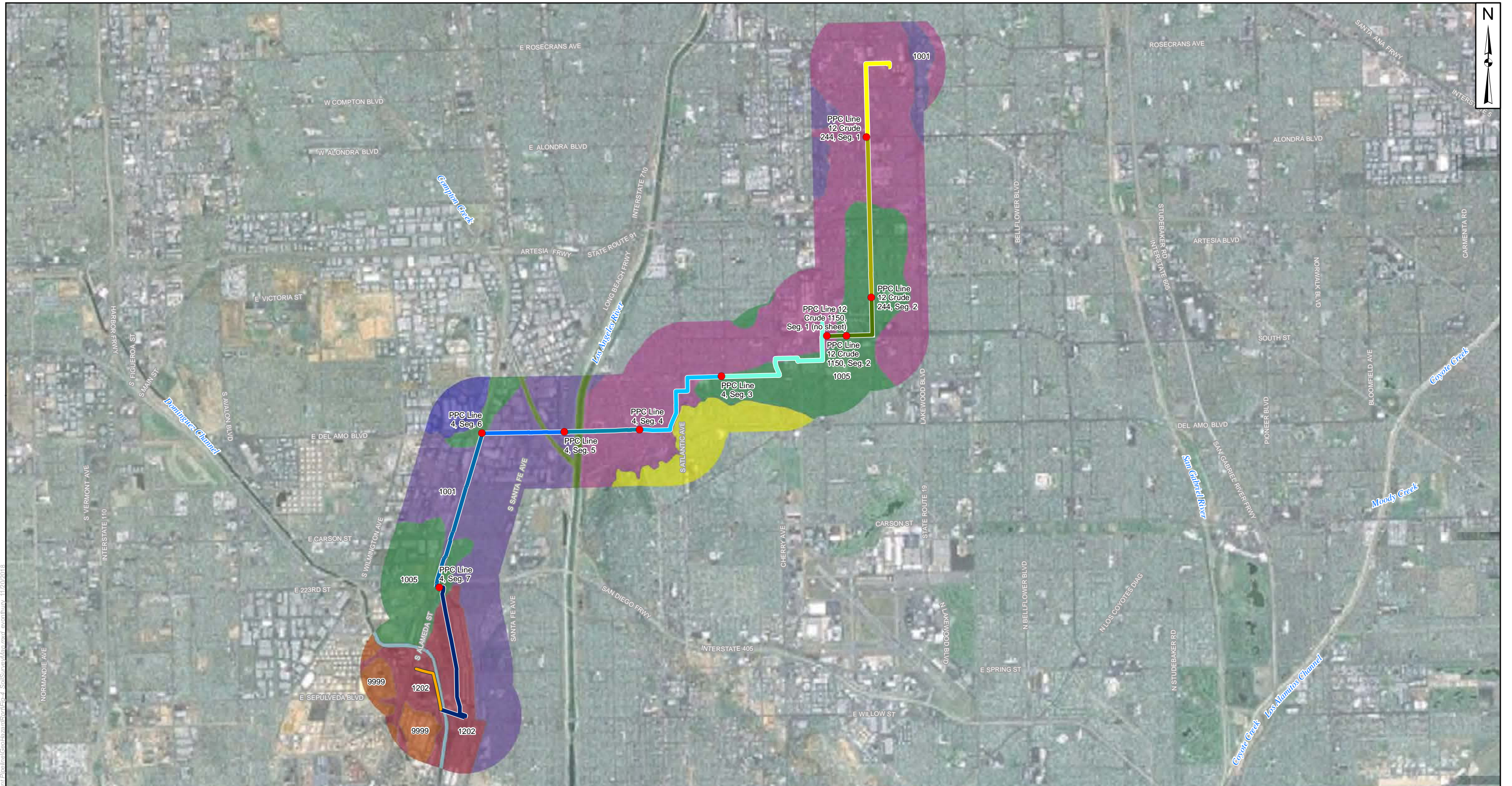
SYMBOL EXPLANATION

- Contact between map units - Accuracy of location ranges from well located to inferred; dotted where concealed. All offshore contacts are considered approximately located
- Fault - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed; queried where continuation, identity, or existence is uncertain. Where age was determined in offshore area, age symbol is shown astride fault and relative offset is shown by U on upthrown side and D on downthrown side (relative or apparent). Age of fault is indicated as follows:
 - cuts strata of Holocene age
 - cuts strata of Quaternary age
 - cuts strata of Pleistocene age
 - cuts strata of Pliocene age
 - cuts Miocene or older strata
- Anticline - Solid where accurately located; long dash where approximately located; short dash where inferred; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
- Synclinal Fold - Solid where accurately located; long dash where approximately located; dotted where concealed. Plunge direction indicated by arrowhead on fold axis
- Strike and dip of sedimentary beds. Number indicates dip angle in degrees:
 - Horizontal bedding.
 - Inclined bedding.
 - Vertical bedding.
- Strike and dip of vertical metamorphic foliation
- Arrows on landslides indicate direction of movement. Headscarp hachured were mapped
- Creep (offshore) - Arrow indicates apparent direction of sediment movement
- Oil and/or gas seep

Note: All items in legend may not appear on map.

Sources: CGS (2016), Geologic map of the Long Beach 30' x 60' Quadrangle, California, Version 2.0: http://ftp.consrv.ca.gov/pub/dmg/rmp/Prelim_geo_ptd/Long_Beach_100k_v2.0_Map.pdf

	PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA		FIGURE 3b
	PROJECT NUMBER: 1802-2611	DATE: November 2018	

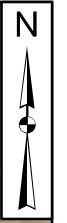
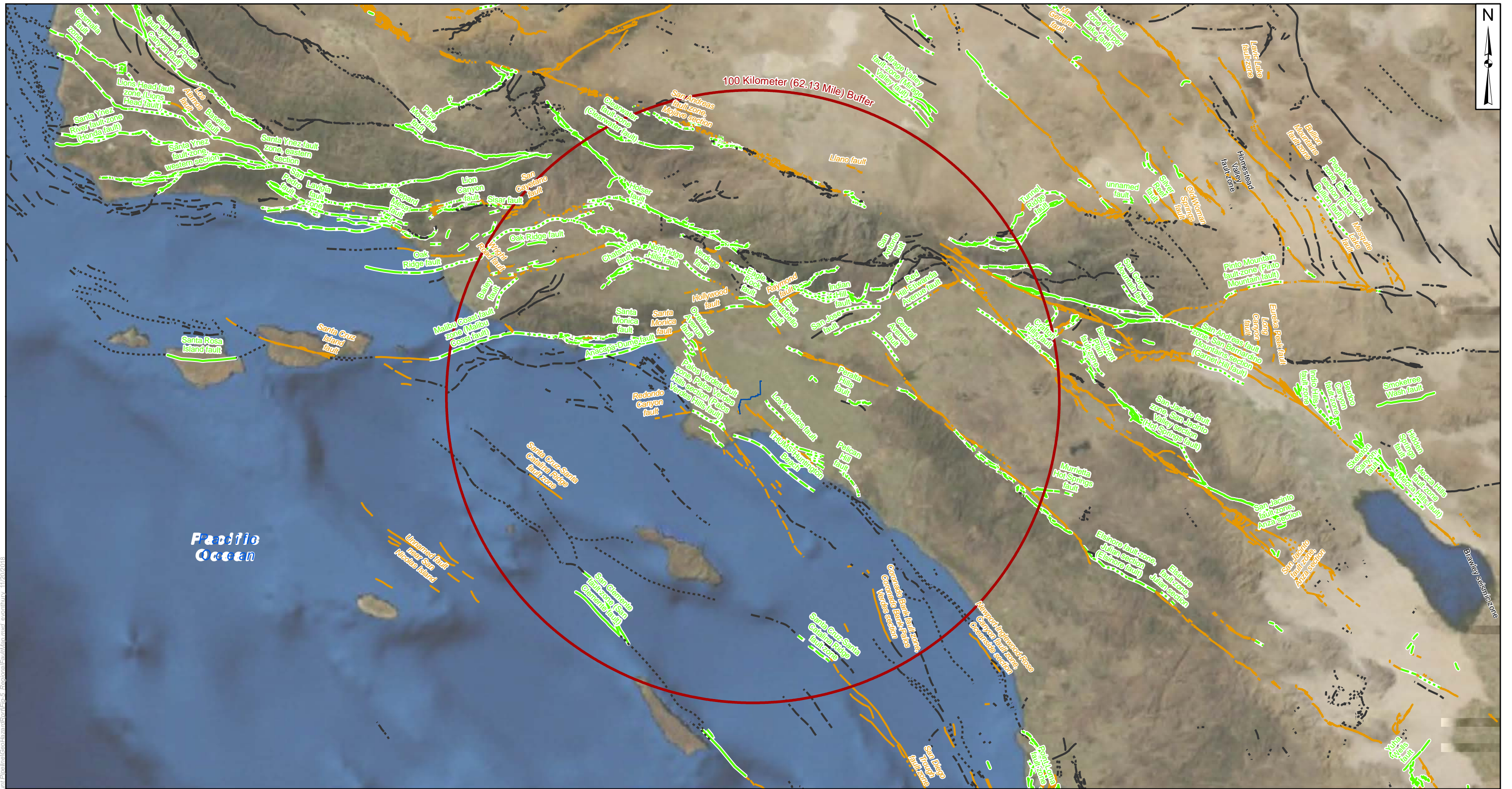


LEGEND:

● Segment Marker	PPC Line 12 Crude 244, Seg. 1	PPC Line 4, Seg. 5	Urban Land-Typic Xerorthents, Terraced-Windfetch Complex (1125), 2 to 9 Percent Slopes	Urban Land, Frequently Flooded (1261), 0 to 5 Percent Slopes
— New Pipeline Segment	PPC Line 12 Crude 244, Seg. 2	PPC Line 4, Seg. 6	Urban Land-Thums-Windfetch Complex (1132), 0 to 5 Percent Slopes	Urban Land (9999), Industrial
— Existing Pipeline Segment	PPC Line 4, Seg. 3	PPC Line 4, Seg. 7	Urban Land (1202), 0 to 2 Percent Slopes	Water (W)
— PPC Line 12 Crude 1150, Seg. 2	PPC Line 4, Seg. 4	PPC Line 4, Seg. 8	Soil Map Unit (NRCS, 2018)	
			Urban Land-Hueneme, Drained-San Emigdio Complex (1000), 0 to 2 Percent Slopes	
			Urban Land-Metz-Pico Complex (1001), 0 to 2 Percent Slopes	
			Urban Land-Biscailuz-Hueneme, Drained Complex (1005), 0 to 2 Percent Slopes	

MAP EXTENT:

	Source: ESRI, 2013; NRCS, 2016. Coordinate System: NAD83 State Planes California, Zone V, ft Abbreviation: NRCS = National Resources Conservation Service Seg. = Segment Notes: This map was created for informational and display purposes only.		padre associates, inc. ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS	PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA <hr/> PROJECT NUMBER: 1802-2611 DATE: November 2018	SOIL SURVEY MAP	FIGURE 4
--	---	--	---	--	------------------------	---------------------------

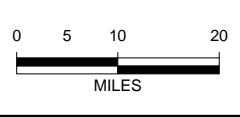


LEGEND:

- 100 Kilometer (62.13 Mile) Buffer
- New Pipeline Segment
- Existing Pipeline Segment

Quaternary Fault Age (Years)

 <130,000, Inferred	 <15,000, Inferred
 <130,000, Moderately Constrained	 <15,000, Moderately Constrained
 <130,000, Well Constrained	 <15,000, Well Constrained
 <1,600,000, Inferred	 <1,600,000, Moderately Constrained
 <1,600,000, Well Constrained	



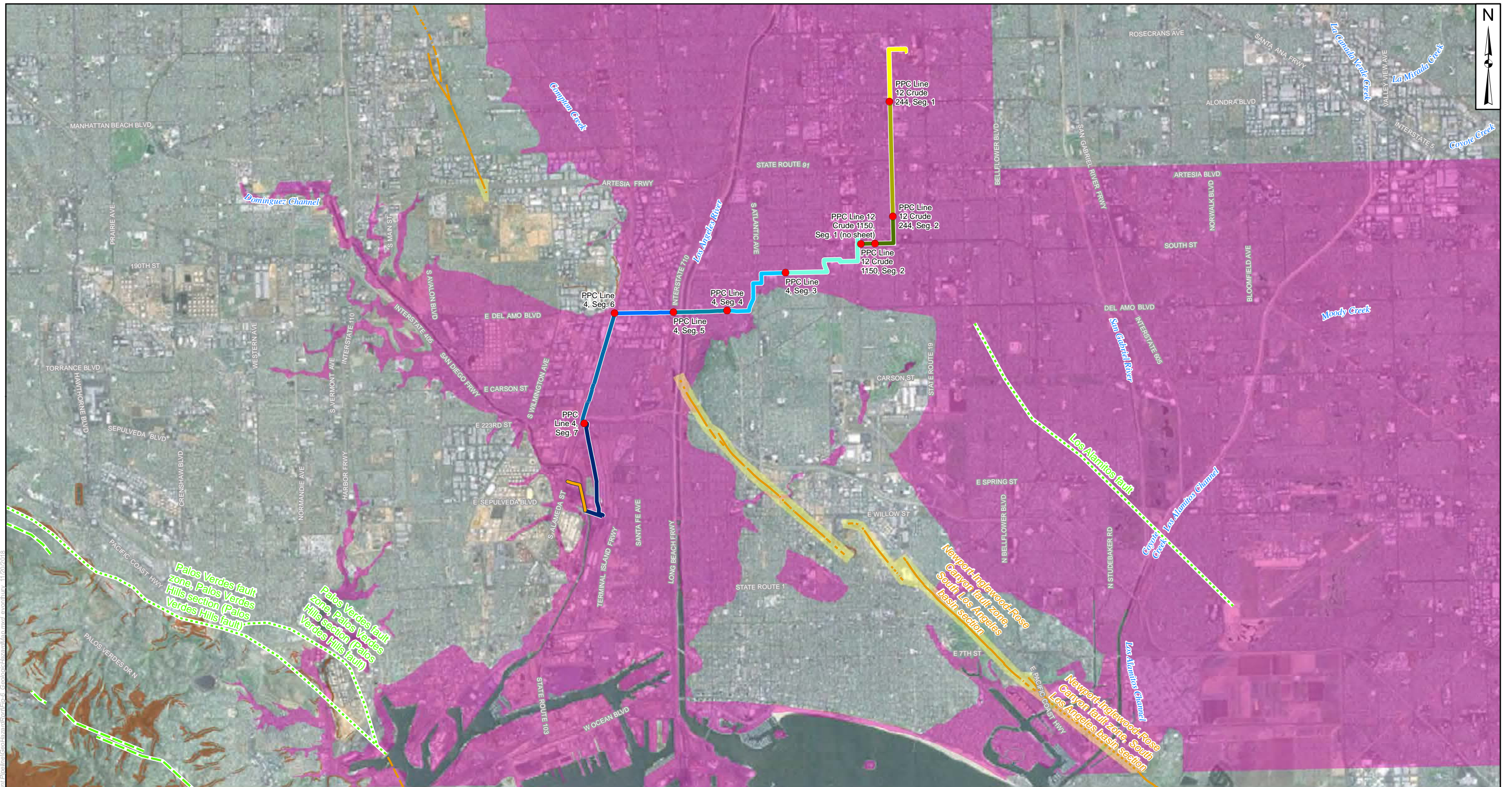
Source: Copyright © 2013 ESRI, i-cubed, GeoEye
 California Geologic Survey (CGS, 2018) Zones of Required Investigation
 (<http://maps.conservation.ca.gov/cgs/informationwarehouse/>)
 Coordinate System: NAD83 State Planes California, Zone V, feet
 Abbreviation: Seg = Segment
 Notes: This map was created for informational and display purposes only.



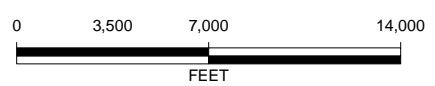
PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT
 LOS ANGELES COUNTY, CA
 PROJECT NUMBER: 1802-2611
 DATE: November 2018

REGIONAL FAULT AND GEOLOGIC HAZARD MAP

FIGURE 5



LEGEND:		Quaternary Fault Age (Years)		MAP EXTENT:	
● Segment Marker	PPC Line 12 Crude 244, Seg. 1	— <1,600,000, Inferred	— <15,000, Inferred	Yellow shaded area	LOS ANGELES COUNTY
— New Pipeline Segment	PPC Line 12 Crude 244, Seg. 2	— <1,600,000, Moderately Constrained	— <15,000, Moderately Constrained	Pink shaded area	
— Existing Pipeline Segment	PPC Line 4, Seg. 3	— <1,600,000, Well Constrained	— <15,000, Well Constrained	Brown shaded area	
— PPC Line 12 Crude 1150, Seg. 2	PPC Line 4, Seg. 4	— <130,000, Inferred	— <15,000, Inferred		
	PPC Line 4, Seg. 5	— <130,000, Moderately Constrained	— <15,000, Moderately Constrained		
	PPC Line 4, Seg. 6	— <130,000, Well Constrained	— <15,000, Well Constrained		
	PPC Line 4, Seg. 7				
	PPC Line 4, Seg. 8				



Source: Copyright © 2013 ESRI, i-cubed, GeoEye
 California Geologic Survey (CGS, 2018) Zones of Required Investigation
 (http://maps.conservation.ca.gov/cgs/informationwarehouse)
 Coordinate System: NAD83 State Plane California, Zone 11, feet
 Abbreviation: Seg. = Segment
 Notes: This map was created for informational and display purposes only.



PROJECT NAME:	CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER:	1802-2611	DATE:
		November 2018

GEOLOGIC HAZARD MAP

FIGURE
6

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
PROPOSED CARSON TO PARAMOUNT
HYDROGEN GAS PIPELINE PROJECT
CARSON, LOS ANGELES COUNTY, CALIFORNIA**

**Prepared for:
Air Products and Chemicals, Inc.**

November 2018



ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

November 29, 2018
Project No. 1802-2611

Air Products and Chemicals, Inc.
4000 MacArthur Boulevard, Suite 420 East Tower
Newport Beach, California 92660

Attention: Mr. Eric Guter

Subject: Phase I Environmental Site Assessment, Proposed Carson to Paramount Hydrogen Gas Pipeline Project, Carson, Los Angeles County, California

Dear Mr. Guter:

Padre Associates, Inc. is pleased to submit the attached Phase I Environmental Site Assessment report to Air Products and Chemicals, Inc. (APCI) for the subject pipeline corridor. The report presents our findings, conclusions, and recommendations regarding the current environmental conditions at the subject site.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional, as defined in §312.10 of 40 CFR §312. We have specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Additionally, the subject Phase I ESA has been performed in conformance with the scope and limitations of ASTM Practice E1527-13.

It has been a pleasure to have provided these services to APCI. If you have any questions or require additional information, please contact Mr. Eric Snelling at (805) 786-2650 at extension 12 or by email at esnelling@padreinc.com.

Sincerely,

PADRE ASSOCIATES, INC.

Eric K. Snelling, R.E.P.A.
Principal

Jerome K. Summerlin, C.E.G., C.Hg.
President

Attachment: Phase I ESA Report

369 Pacific Street ■ San Luis Obispo, California 93401 ■ (805) 786-2650 ■ www.padreinc.com

EXECUTIVE SUMMARY

At the request of Air Products and Chemicals, Inc. (APCI), Padre Associates, Inc. (Padre) conducted a Phase I environmental site assessment (ESA) of a proposed 0.5-mile long pipeline route extending from the existing APCI Carson Hydrogen Facility (APCI Facility) east and south to Sepulveda Boulevard in Carson, Los Angeles County, California (Project Site). The location of the Project Site is illustrated on Plate 1 – Site Location Map. The scope of the Phase I ESA was limited to the proposed alignment of the new pipeline segment requiring ground disturbance and potentially encountering contaminated soil.

This ESA was completed in accordance with the guidelines outlined in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-13) and the U.S. Environmental Protection Agency's All Appropriate Inquiry (AAI) standard promulgated in 2013. The objective of the ESA was to evaluate whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment, resulting in the determination of a Recognized Environmental Condition (REC) at the Project Site. A REC is defined by ASTM E-1527-13 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 environment; (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.* The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus 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.

To achieve the objective of the ESA, the following tasks were completed:

- A review of readily available geologic and hydrogeologic literature;
- Historical research including a review of available historical aerial photographs, Sanborn Fire Insurance Maps, historical city directories, and historical topographic maps relating to the Project Site;
- A site reconnaissance of the Project Site and adjacent properties;
- Interviews/site questionnaires with knowledgeable persons of the Project Site;
- Public agency records review;
- An environmental database search; and
- The preparation of this report presenting the results of the ESA.

Findings

The proposed pipeline alignment would cross industrial land within the current APCI Carson Facility and Tesoro/Marathon pipeline corridor. The proposed pipeline would be placed in an aboveground pipe rack within the majority of the APCI property and buried within the pipeline corridor area.

On the basis of a review of historical topographic maps and historical aerial photographs, Padre concludes that the APCI Carson Facility has been utilized for industrial uses since the 1960s. The pipeline corridor has been utilized as a railroad siding and later a pipeline corridor since at least the 1960s. Petroleum hydrocarbon-containing soils have been previously identified by APCI during past pipeline repair-related excavation activities within the Tesoro/Marathon pipeline corridor property.

Conclusions and Recommendations

Padre concludes that the shallow soils along the proposed pipeline route have been impacted by petroleum hydrocarbons and potentially additional contaminants, which represent a Recognized Environmental Condition at the Project Site. Padre makes the following recommendations regarding the areas of potential environmental concern along the proposed pipeline alignment:

- A Phase II site assessment should be completed in areas along the proposed pipeline route identified with a high likelihood of encountering soil from current or historical petroleum transportation or refining activities. The Phase II assessment activities would be required only in areas along the proposed pipeline route where the pipeline would be constructed underground. The objective of the Phase II site assessment activities would be to identify the areas of soil contamination where special worker protection and waste handling/disposal requirements would be required during pipeline construction activities.
- A Contaminated Materials Management Plan (CMMP) should be prepared and implemented during the course of the construction activities planned at the Project Site. The CMMP should include maps illustrating areas of suspected or known soil contamination. The CMMP should also include the methods for identification of contaminated materials, and removal/disposal of contaminated materials. A site-specific Health and Safety Plan should also be developed for the protection of workers and the community during the handling of contaminated materials.

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1.0 INTRODUCTION

At the request of Air Products and Chemicals, Inc. (APCI), Padre Associates, Inc. (Padre) conducted a Phase I environmental site assessment (ESA) of a proposed 0.5-mile long pipeline route extending from the existing APCI Carson Hydrogen Facility east and south to Sepulveda Boulevard in Carson, Los Angeles County, California (Project Site). The location of the Project Site is illustrated on Plate 1 – Site Location Map. The scope of the Phase I ESA was limited to the proposed alignment of the new pipeline segment requiring ground disturbance and potentially encountering contaminated soil.

This ESA was completed in accordance with the guidelines outlined in the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-13) and the U.S. Environmental Protection Agency's All Appropriate Inquiry (AAI) standard promulgated in 2013. The objective of the ESA was to evaluate whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment, resulting in the determination of a Recognized Environmental Condition (REC) at the Project Site. A REC is defined by ASTM E-1527-13 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 environment; (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.* The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimus 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. Additional key definitions from the ASTM E-1527-13 standard include the following:

- *Environment* - includes navigable waters, the waters of the contiguous zone, and the ocean waters; and any other surface water, groundwater, drinking water supply, land surface or subsurface strata. It should be noted that this ESA did not include a survey of asbestos-containing materials (ACM) or lead-based paint (LBP), nor did it include sampling and chemical analysis of any environmental media at the Project Site.
- *Historical Recognized Environmental Conditions (HRECs)* - a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (i.e., property use restrictions, activity and use limitations, institutional controls and engineering controls).
- *Controlled Recognized Environmental Conditions (CRECs)* - a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable

- regulatory authority (for example, as evidence by the issuance of a “No Further Action” letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (i.e., property use restrictions, activity and use limitations, institutional controls and engineering controls).
- *Activity Use Limitations (AULs)* - legal or physical restrictions or limitations on the use of, or access to, a site or facility: (a) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and / or surface water on the property, or (b) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.
 - *Migrate / Migration* - refers to the movement of hazardous substances or petroleum products in any form, including solid and liquid at the surface and subsurface, and vapor in the subsurface.

To achieve the objective of the ESA, the following tasks were completed:

- A review of readily available geologic and hydrogeologic literature;
- Historical research including a review of available historical aerial photographs, Sanborn Fire Insurance Maps, historical city directories, and historical topographic maps relating to the Project Site;
- A site reconnaissance of the Project Site and adjacent properties;
- Interviews/site questionnaires with knowledgeable persons of the Project Site;
- Public agency records review;
- An environmental database search; and
- The preparation of this report presenting the results of the ESA.

Four appendices are included with this report: Appendix A presents photographs of the Project Site at the time of Padre’s site visit; Appendix B presents the historical information obtained for the Project Site; Appendix C presents the environmental database report; Appendix D presents the qualifications of the environmental professionals that conducted and supervised the ESA preparation.

2.0 ENVIRONMENTAL SETTING

The following discussion summarizes the geologic, hydrogeologic, and other relevant data pertaining to the physical setting of the Project Site.

2.1 SITE LOCATION AND DESCRIPTION

The proposed project would consist of a new 0.5-mile long section of subsurface pipeline for the conveyance of hydrogen gas from the existing Carson Hydrogen Facility, eastward to the existing Marathon Oil Company's pipeline right-of-way along the western bank of the Dominguez Channel, then along the right-of-way corridor to Sepulveda Boulevard. At Sepulveda Boulevard, the pipeline would cross underground to the south side of Sepulveda Boulevard. At this location the new pipeline would be connected to existing pipeline that extend eastward and northward to the Paramount Refinery using existing pipelines. Refer to Plate 2 – Site Plan.

2.2 TOPOGRAPHY AND DRAINAGE

Based on a review of the United States Geological Survey (USGS) Long Beach 7.5-minute topographic quadrangle, the elevation of the Project site ranges from 19 to 25 feet above mean sea level. Topography within this area consists of heavily developed land. The Carson Refinery is located west of the Project Site. The Dominguez Channel lies adjacent and east of the Project Site. Surface drainage appears to flow to the east toward the Dominguez Channel (USGS, 2012).

2.3 GEOLOGY AND HYDROGEOLOGY

Geologic Materials. The Project site is located within the Los Angeles Basin, a northwest-southeast trending coastal plain bound by mountains to the north and east and the Pacific Ocean on the west and south. The Los Angeles Basin is a depositional structure with thick sequences of unconsolidated, stratified, and laterally discontinuous continental deposits derived from surrounding highlands and marine sediments, forming the current broad plain. The deposits of the basin have been deformed by tectonic events, incised by rivers, and backfilled and buried by alluvium. The Project Site is underlain by recent alluvium and fill materials (AECOM, 2017). No faults are located within the Project Site. The nearest mapped geologic fault is the Inglewood-Newport fault zone, which is located approximately three miles northeast of the Project Site (CGS, 2016).

Hydrogeology. The Project Site is located within the West Coast Groundwater Basin (Basin No. 4-11.03, as designated by the California Department of Water Resources), the southwestern most groundwater basin within the Los Angeles Coastal Plain. A multiple aquifer system is present in the vicinity of the Project Site, including localized perched groundwater (at various depths less than 40 feet below ground surface [bgs]), the local groundwater table (at depths of approximately 45 to 120 feet bgs), the Gage aquifer (from approximately 120 to 200 feet bgs), the Lynwood aquifer (from approximately 200 to 350 feet bgs), and the Silverado

aquifer (from approximately 350-450 feet bgs to approximately 750-880 feet bgs). Groundwater within the “Water Table” zone in the vicinity of the Project Site flows generally to the west. Depth to groundwater at the Project Site is anticipated to be approximately -5 to 5 feet bgs (AECOM, 2017).

2.4 SURFICIAL SOIL

According to the United States Department of Agriculture, Natural Resource Conservation Service’s Web Soil Survey web-site, the Project site is underlain with Urban Land soils. Urban Land, on 0 to 2 percent slopes, is characterized as soils that have been altered due to urban development. This soil type is well-drained, with very high runoff characteristics (NRCS, 2018).

2.5 FLOODPLAIN

Flood insurance rate maps for the Project Site and surrounding properties are made available for viewing on the Federal Emergency Management Agency (FEMA) website (www.fema.com). Flood zone information published by FEMA (panel no. 06037C1965F) indicates that the Project Site is located within the 100-year floodplain (FEMA, 2008).

2.6 OIL AND GAS WELLS

Padre reviewed regional maps published by the State of California Division of Oil, Gas, and Geothermal Resources (DOGGR) website (<http://www.consrv.ca.gov/DOG/index.htm>). According to DOGGR, no oil or gas wells are located at the Project Site. One oil well is located within a one-half mile radius of the Project Site. This well, known as Alford Development Company’s “Cy No. 3”, is located east of the Dominguez Channel. The well is listed as plugged and abandoned (DOGGR, 2018).

3.0 HISTORICAL SITE CONDITIONS

Based on a review of readily available historical information, Padre has compiled the following history of the Project Site. The earliest documentation reviewed for the site usage was a historical topographic map dated 1896. The 1896 map shows the Project Site as undeveloped land. Alameda Street and the Southern Pacific Railroad are visible to the west of the Project Site. On the basis of a review of the available historical topographic maps and historical aerial photographs, Padre concludes that the APCI Carson Facility has been utilized for industrial uses since the 1960s. The pipeline corridor has been utilized as a railroad siding and later as a pipeline corridor since at least the 1960s.

3.1 HISTORICAL AERIAL PHOTOGRAPHS

Padre reviewed readily available aerial photographs of the Project Site and the surrounding area obtained from Environmental Data Resources, Inc. (EDR). Aerial photographs from the years 1928, 1947, 1952, 1963, 1970, 1977, 1981, 1989, 1994, 2002, 2005, 2009, 2012, and 2016 were available. Information presented on the photographs is summarized below:

- 1928** The 1928 photograph shows the Project Site as undeveloped and agricultural land. Alameda Street and the adjacent railroad tracks are visible in this photograph. Sepulveda Boulevard is also shown in this photograph. Agricultural land is shown north and east of the Project Site. The Carson Refinery is shown to the southwest and west of the Project Site (west of Alameda Street and south of Sepulveda Boulevard). The Dominguez Channel is not visible in this photograph. A drainage channel is shown south of the Project Site extending from the intersection of Alameda Street and Sepulveda Boulevard in a southerly direction.
- 1947** The 1947 photograph shows the Project Site as vacant land. Adjacent land is shown as vacant land. The Dominguez Channel is shown as developed in this photograph. The adjacent property to the south of the current Carson Facility is shown as vacant land. The Carson Refinery is shown south of Sepulveda Boulevard and west of Alameda Street.
- 1952** The 1952 photograph shows the Project Site as vacant land. The adjacent land uses appear similar to those observed in the 1947 photograph.
- 1963** The 1963 photograph shows the Carson Facility site developed with an industrial facility containing three aboveground storage tanks. The pipeline corridor area is shown as undeveloped land. An oil and gas facility is shown north of the Carson Facility site. The Dominguez Channel lies east of the Project Site. Vacant land is shown south and west of the Project Site.
- 1970** The 1970 photograph shows the Carson Facility developed with an industrial facility with three spherical aboveground storage tanks. The pipeline corridor is shown to be

developed as a railroad siding extending from the Alameda Street railroad corridor. An oil and gas facility is shown north of the Carson Facility site. A petroleum coke facility is shown south of the Carson Facility site. The vicinity of the Project Site is developed for industrial and refinery uses.

- 1977** The 1977 photograph shows the Project Site developed with industrial and railroad uses. Adjacent property uses are similar to the 1970 photograph.
- 1981** The 1981 photograph shows the Project Site developed with industrial and railroad uses. Adjacent property uses are similar to the 1977 photograph. Four large aboveground storage tanks are shown at a truck loading facility adjacent and west of the pipeline corridor along Sepulveda Boulevard.
- 1989** The 1989 photograph shows the Project Site developed with industrial and railroad uses. Adjacent property uses are similar to the 1981 photograph.
- 1994** The 1994 photograph shows the Carson Facility portion of the Project Site as cleared of the former industrial facility. The pipeline corridor portion appears to be vacant. Adjacent property uses are similar to the 1989 photograph.
- 2002** The 2002 photograph shows the Project Site as developed with the current Carson Facility. Adjacent property uses are similar to the 1994 photograph.
- 2005** The 2005 photograph shows the Project Site with similar uses as was observed during the site visit. Adjacent property uses are similar to the 2002 photograph, except for a crushed concrete facility is shown adjacent and south of the Carson Facility.
- 2009** The 2009 photograph shows the Project Site with similar uses as was observed during the site visit. Adjacent property uses are similar to the 2002 photograph, except for a parking lot that is visible on a portion of the petroleum coke facility area.
- 2012** The 2012 photograph shows the Project Site with similar uses as was observed during the site visit. Adjacent property uses are similar to those observed during the site visit.
- 2016** The 2016 photograph shows the Project Site with similar uses as was observed during the site visit. Adjacent property uses are similar to those observed during the site visit.

3.2 HISTORICAL SANBORN FIRE INSURANCE MAPS

According to EDR-Sanborn, Sanborn maps published for the Carson area did not provide coverage for the Project Site.

3.3 UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAPS

Padre obtained available historical topographic maps published by the USGS for the vicinity of the Project Site. Historical topographic maps dated 1896, 1899, 1902, 1923, 1930,

1942, 1947, 1949, 1964, 1972, 1981, and 2012 were reviewed. A summary of the information presented on each map is presented below.

- 1896** The 1896 map shows the Project Site as undeveloped land. The Southern Pacific Railroad tracks are shown extending north-south along Alameda Street. The area of the Carson Refinery is shown as several lakes labeled as Watson Lakes. Sepulveda Boulevard is shown on this map. A creek is shown extending north-south approximately one half mile east of the Project Site.
- 1899** The 1899 map shows the Project Site as undeveloped land. Adjacent land features are shown to be similar to the 1896 map.
- 1923** The 1923 map shows the Project Site as undeveloped land. The Southern Pacific Railroad and Pacific Electric Railway tracks are shown extending north and south along Alameda Street. The Associated Oil Tank Farm is shown south of the Project Site beyond Sepulveda Boulevard. The Shell Oil Refinery and Union Oil Tank Farm are shown west of the Project Site beyond Alameda Street.
- 1930** The 1930 shows land uses at the Project Site and adjacent properties similar to the 1923 map.
- 1942** The 1942 map shows land uses at the Project Site and adjacent properties similar to the 1930 map.
- 1947** The 1947 map shows land uses at the Project Site and adjacent properties similar to the 1943 map. Three small buildings are shown along the Project Site.
- 1949** The 199 map shows the Project Site as undeveloped land. The Dominguez Channel is shown as developed along the eastern boundary of the Project Site.
- 1964** The 1964 map shows the APCI property as developed with an industrial facility. Adjacent land uses are similar to earlier maps.
- 1972** The 1972 map shows similar land uses at the Project Site and adjacent properties as the 1964 map. A large building has been constructed along the western side of the Project Site at the current petroleum coke facility. Also, four aboveground storage tanks area located south of the petroleum coke facility at the marketing terminal facility west of the pipeline corridor and north of Sepulveda Boulevard.
- 1981** The 1981 map shows land uses similar to the 1972 map.
- 2012** The 2012 map does not show structures, only land contours, streets, and waterways.

4.0 CURRENT SITE CONDITIONS

The current site conditions were assessed to determine current activities and hazardous substances handling and storage practices.

4.1 SITE RECONNAISSANCE

On October 10, 2018, Mr. Eric Snelling of Padre visited the Project Site. The weather conditions at the time of inspection were clear and sunny. Photographs taken during the course of the site visit are presented in Appendix A.

Padre visited the APCI Carson Hydrogen Facility (23300 South Alameda) and walked the length of the proposed pipeline route within the facility. The APCI Facility uses a steam-methane reformer process to create hydrogen gas from methane and steam. Adjacent properties to the APCI property include a sulfur recovery facility associated with the Tesoro Carson Refinery to the north, the Dominguez Channel to the east, a concrete recycling facility to the south, and Alameda Street and the Union Pacific Railroad property to the west. Padre's site visit was limited to the proposed pipeline corridor along the southern boundary of the facility. The ground surface in this area was either paved with asphalt-concrete or covered with gravel. The pipeline corridor along the Dominguez Channel is reportedly owned by Tesoro/Marathon Oil Company. Padre walked the pipeline corridor in its entirety. The ground surface was observed to be bare soil. Adjacent properties to the pipeline corridor include a petroleum coke facility, a large parking lot, and a petroleum marketing terminal. Two partially exposed trenches were observed at locations reportedly experiencing recent steam leaks. Stained soils were observed on the sidewalls of both excavations. Several pipeline markers were observed along the corridor indicating that pipelines within the corridor contain crude oil, natural gas, steam, and hydrogen gas.

4.2 INTERVIEWS

Padre interviewed Mr. Jim Glick, pipeline technician for APCI. Mr. Glick has been associated with the Project Site operations since 1999. Mr. Glick stated that he has observed stained soils with recent pipeline excavations within the middle section the pipeline corridor area.

4.3 ASBESTOS-CONTAINING MATERIALS

Padre visually observed the Project Site for the presence of suspect asbestos-containing materials (ACM). Suspect ACM materials were observed in the form of thermal system insulation and gasket material along pipeline routes.

4.4 LEAD-BASED PAINT

Padre visually observed the Project Site for the presence of lead-based painted (LBP) materials. Suspect LBP materials observed on painted surfaces on existing piping and structures within the APCI Facility.

4.5 POLYCHLORINATED BIPHENYLS

A large pad-mounted electrical transformer was observed in the western portion of the APCI Facility. Electrical transformers contain dielectric oils that have the potential to contain polychlorinated biphenyls (PCBs). No electrical transformers were observed in the vicinity of the proposed pipeline route.

5.0 ENVIRONMENTAL RECORDS REVIEW

Padre contacted the regulatory agencies in the region to determine if soil and groundwater contamination is known or suspected at or near the Project Site. Readily available environmental reports on the APCI Facility were reviewed by Padre and reviewed for potential areas of concern. Regulatory agency databases were obtained from EDR for the Project Site and properties within one mile of the Project Site.

5.1 PUBLIC RECORDS REVIEW AND AGENCY CONTACTS

5.1.1 County of Los Angeles Public Works Department – Environmental Programs Division

The County of Los Angeles Public Works Department (LADPW) regulates industrial waste discharges, storm water discharges, and previously regulated underground storage tanks (USTs) within the Los Angeles County area. Padre reviewed available files for the previous APCI Facility, under the address of 23320 South Alameda Street. The following records were reviewed by Padre:

Industrial Waste Discharge Permit. An industrial waste discharge permit (Permit No. 15572) was issued to APCI on March 2, 2000, for up to 200-gallons per minute of boiler blow down water discharges. The facility is listed with an oil/water separator.

Underground Storage Tanks. According to the files reviewed by Padre, five USTs were removed at the APCI Facility in 1987; including a 10,000-gallon capacity diesel fuel UST, a 3,000-gallon capacity gasoline UST, a 2,000-gallon capacity waste oil UST, a 2,000-gallon capacity diesel fuel UST, and a 6,000-gallon capacity caustic soda UST. According to a letter from the RWQCB dated September 21, 1995, soil contamination was reportedly observed during removal of two of the five USTs, and 400 cubic yards of contaminated soil were excavated and removed for off-site disposal. In this letter, the RWQCB required the submittal of a site assessment work plan. Refer to Section 5.1.3 for more information.

5.1.2 County of Los Angeles Fire Department – Health/Hazardous Materials Division

The County of Los Angeles Fire Department – Health/Hazardous Materials Division (LACoFD) provides oversight, guidance, investigation and enforcement of the laws involving the handling, storage and processing of hazardous materials and monitors facilities to ensure safe and legal handling, storage, and disposal of hazardous wastes. LACoFD is the Certified Unified Program Agency (CUPA) for most communities within Los Angeles County. Padre requested files for the Project Site from LACoFD. LACoFD reported that no files were available for the APCI Facility address.

5.1.3 California Regional Water Quality Control Board, Los Angeles Region

The California Regional Water Quality Control Board, Los Angeles Region (RWQCB) is the state agency responsible for the protection of water quality within the Los Angeles region. Padre obtained file information from the RWQCB regarding the APCI Facility. A summary of the information obtained from the RWQCB files is provided below.

Padre reviewed a Spills, Leaks, and Investigations Case (SLIC) file for the APCI facility with the address of 23320 South Alameda Street. According to a Site Investigation Study Report, prepared by IT Corporation and dated December 1993, soil contamination was identified at a former diesel fuel UST location during UST removal activities. The soil contamination was identified as resulting from a leak at a nearby aboveground storage tank that was utilized to store gas condensate. Soil contamination was identified to be limited to soil in the vicinity of the former AST, which was located in the western portion of the facility. The AST was subsequently removed during the demolition of the former hydrogen facility. According to the project file, a soil vapor extraction system operated at the facility from May 1995 to November 1996 to remediate soil contamination identified at the site. The RWQCB issued a “No Further Action” letter on September 25, 1997. In 1998, approximately 1,782 tons of additional contaminated soil were excavated during the course of site redevelopment activities. The excavated soil was reportedly transported to Parker, Arizona, for disposal.

Padre also reviewed a recent report prepared for the Tesoro Los Angeles Refinery titled *LNAPL Conceptual Site Model (LCSM) Report*, prepared by AECOM for Tesoro Refining and Marketing Company and submitted to the RWQCB (AECOM, 2017). The report provides an overview of the geologic and hydrogeologic conditions at the Tesoro site. The report also documents the occurrence of light non-aqueous phase liquids (LNAPL), primarily petroleum hydrocarbons, identified within the Tesoro Refinery site. The report documents that the LNAPL occurrences are not found at the Project Site. The closest LNAPL occurrence is identified at the Carson Products Terminal, which is located adjacent and west of the southern end of the proposed pipeline route. Groundwater flow direction is reportedly toward the west (AECOM, 2017).

5.1.4 California Department of Toxic Substances Control

The California Department of Toxic Substances Control (DTSC) maintains the EnviroStor database for known or suspected hazardous waste sites in California. Based on the

review of the EnviroStor database, there are currently no active environmental cases (assessment or remediation) at the Project Site.

5.1.5 Environmental Liens or Activity and Use Limitations

According to the EDR, no records of environmental liens and/or Activity/Use Limitations were found in association of the Project Site.

5.2 ENVIRONMENTAL DATABASE INFORMATION

Padre obtained environmental agency database information from EDR. The EDR report is included as Appendix C. The databases were reviewed to identify registrations and documented environmental incidents regarding the site and nearby properties within a one-mile radius of the Project Site. Padre also attempted to locate unplottable sites that EDR did not locate because of incomplete or incorrect address information. The following sections summarize our findings.

5.2.1 National Priorities List – Federal Superfund

The National Priorities List is a U.S. Environmental Protection Agency (U.S. EPA) listing of private, state, and federally owned sites which have been included on the federal Superfund list for remediation.

- The Project Site is not located on the NPL List. One property located within a one-mile radius was listed on the National Priorities List.

Montrose Chemical

20201 South Normandie

Distance: Adjacent (Dominguez Channel)

Direction: East

Montrose Chemical Corporation manufactured DDT on a 13-acre site in Torrance. DDT-containing water was discharged from the site into the Dominguez Channel. The Dominguez Channel has been included within the NPL site boundaries due the presence of DDT-impacted sediments contained within the channel. This site is not anticipated to pose an environmental concern to the Project Site based on the finding that the media affected is limited to sediments within the channel bed and banks of the channel.

5.2.2 U.S. EPA Comprehensive Environmental Response, Compensation, And Liability Information System (CERCLIS)

The U.S. EPA's CERCLIS Listings are a compilation of sites that have been brought to the attention of the U.S. EPA, through various means, as being possible sites of hazardous waste activity. The CERCLIS listings are an information database and not necessarily an action list.

- The Project Site was not identified on the CERCLIS List. Two properties located within a one-mile radius were identified on the CERCLIS List and is discussed below:

Montrose Chemical

20201 South Normandie
Distance: Adjacent (Dominguez Channel)
Direction: East

Refer to Section 5.2.1 above.

Alameda Street Sanitary Landfill

22700 South Alameda Street
Distance: 2,500 feet
Direction: North

This site is reportedly an unpermitted landfill that is listed with a closed operational status. The site is located approximately 0.5-miles north of the Project Site and north of the Dominguez Channel. Based on the distance, direction, and regulatory status, this site is not anticipated to pose an environmental threat to the Project Site.

5.2.3 RCRA-TSD Facilities Listing

The U.S. EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA-TSD database is a compilation by the U.S. EPA of reporting facilities that transport, treat, store or dispose of hazardous waste.

- The Project Site was not listed on the RCRA-TSD List. One site located within a one-mile radius was identified and are discussed further below.

Tesoro Los Angeles Refinery – Carson Operations

1801 Sepulveda Blvd
Distance: 2,881 feet
Direction: West

This site is part of the Tesoro Refinery, which is located west of the Project Site across Alameda Street. Refer to Section 5.1.3 for more information.

5.2.4 Toxic Release Inventory System

The Toxic Release Inventory System (TRIS), maintained by the U.S. EPA, includes facilities that release toxic chemicals to the air, water, and land in reportable quantities.

- The Project Site was identified on the TRIS List. The APCI Carson Facility is listed as being permitted to release ammonia, methanol, and a minor amount of chromium to the environment through stack emissions.

5.2.5 Emergency Response Notification System

The Emergency Response Notification System (ERNS) contains records on releases of oil and hazardous substances reported to the U.S. EPA and National Response Center of the U.S. Coast Guard.

- The Project Site was not listed on the ERNS list.

5.2.6 Toxic Pits List

Toxic Pits Cleanup Act sites are those sites suspected of containing hazardous substances where cleanup has not been completed.

- The Project Site was not identified on the Toxic Pits List. One property located within a one-mile radius was identified and is discussed below.

Ground Water Cleanup – Carson

2000 Sepulveda

Distance: 1,580 feet

Direction: Southwest

This site is listed as occurring at the GATX storage terminal facility. This site is listed as “closed” status as of August 1, 1991. Based on distance, direction, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

5.2.7 RCRA-CORRACTS Facilities Listing

The USEPA’s Resource Conservation and Recovery Act (RCRA) Corrective Action Sites Listing contains information pertaining to hazardous waste treatment, storage, and disposal facilities (RCRA TSD) which have conducted, or are currently conducting, a corrective action(s) as regulated under RCRA.

- The Project Site was not identified on the CORRACTS List. Seven properties located within a one-mile radius were identified and are discussed in the EDR report.

Tesoro Refining & Marketing Company LLC – Sulfur Recovery

23208 South Alameda Street

Distance: 684 feet

Direction, North

Tesoro Los Angeles Refinery – Carson Operations

1801 Sepulveda Blvd

Distance: 2,881 feet

Direction: West

The Sulfur Recovery Plant is located north of the APCI Carson Facility and is part of the Carson Refinery, which is located west of the APCI Facility. It is listed as a “medium priority” for corrective action. Refer to Section 5.1.3 for more information.

Solutia Inc. Carson Site

2100 East 223rd Street
Distance: 4,292 feet
Direction: North Northwest

This site is reported with groundwater contamination of benzene and other volatile organic compounds. This site has undergone remedial activities which are listed as “complete” on the EDR report. This site is listed as a “closed case” on the DTSC’s Envirostor website. This site is located hydrogeologically cross-gradient with respect to the Project Site. Based on the distance, direction, hydrologic relationship, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

Phillips 66 Los Angeles Refinery Carson Plant

1520 East Sepulveda Blvd.
Distance: 4,437 feet
Direction: West Southwest

This site is listed with a current status of groundwater stabilization construction completed. This site is located hydrogeologically down-gradient with respect to the Project Site. Based on the distance, direction, and hydrologic relationship, this site is not anticipated to pose an environmental concern to the Project Site.

Stauffer Management Company, LLC

2112 East 223rd Street
Distance:
Direction: North Northwest

This site was the former location of a plastics and resin manufacturing facility. This site is listed with contaminated groundwater where groundwater migration control has been implemented. This site is located hydrogeologically cross-gradient with respect to the Project Site. Based on the distance, direction, and hydrologic relationship, this site is not anticipated to pose an environmental concern to the Project Site.

Valero Wilmington Asphalt Plant

1651 Alameda Street
Distance: 4,644 feet
Direction: South Southwest

This site is listed as a “no further action” site under CORRACTS. This site is located hydrogeologically down-gradient with respect to the Project Site. Based on

the distance, direction, current regulatory status, and hydrologic relationship, this site is not anticipated to pose an environmental concern to the Project Site.

Tesoro Refining & Marketing Company LLC – LA Refinery

2101 East Pacific Coast Highway

Distance: 2,881 feet

Direction: South Southwest

This site is listed with a CORRACTS status of current human exposures not under control and where groundwater migration is under control. This site is located hydrogeologically down-gradient with respect to the Project Site. Based on the distance, direction, and hydrologic relationship, this site is not anticipated to pose an environmental concern to the Project Site.

5.2.8 Superfund Enterprise Management System

The USEPA's Superfund Enterprise Management System (SEMS) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of the USEPA's Superfund Program. The list was formerly known as CERCLIS prior to 2015.

- The Project Site is listed on the SEMS List.

Air Products and Chemicals Inc.

23320 South Alameda Street

Distance: Target Property

Direction: Target Property

This site is listed in the SEMS Archive list. The current status is listed as "Not on NPL" and the site was archived with an inactive status. Based on this information, the case does not indicate an environmental concern at the Project Site.

5.2.9 Resource Conservation and Recovery Act (RCRA) Administrative Action Tracking System (RAATS)

The database contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the U.S. EPA.

- The Project Site was not listed on the RAATS List.

5.2.10 Underground Storage Tank List

USTs are regulated under Subtitle I of RCRA and must be registered with the state department responsible for administering the UST program. In California, the state Water Resources Control Board has compiled a listing of UST sites.

- The Project Site is listed on the UST List.

The site is listed as formerly containing five USTs. Refer to Sections 5.1.1 and 5.1.3 for more information.

5.2.11 Leaking Underground Storage Tank List

The RWQCB is the agency with jurisdiction over leaking underground storage tanks (LUSTs) in the region of the site.

- The Project Site was identified on the LUST List.

The site is listed as a closed case on the LUST list. Refer to Sections 5.1.1 and 5.1.3 for more information.

Additionally, three sites located within 0.5- miles were listed on the LUST list.

ARCO (Carson Terminal)

2149 Sepulveda
Distance: Adjacent
Direction: West

This site is identified with soil affected and a “case closed” status. This site is located hydrogeologically down-gradient with respect to the Project Site. Based on the distance, direction, media affected, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

ARCO Credit Union

1907 Sepulveda Blvd.
Distance: 819 feet
Direction: Southwest

This site is identified with soil affected and a “case closed” status. This site is located hydrogeologically down-gradient with respect to the Project Site. Based on the distance, direction, media affected, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

Import Dealers Service

2222 Sepulveda
Distance: 875 feet
Direction: Southeast

This site is identified with groundwater affected and a “case closed” status. This site is located east of the Dominguez Channel, which is anticipated to pose a hydraulic barrier to the migration of groundwater contamination towards the Project Site. Based on the distance, direction, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

5.2.12 Spills, Leaks, and Investigations List

The RWQCB is the agency with jurisdiction over groundwater protection in the region of the Project Site. The RWQCB maintains a SLIC list regarding active investigations at non-LUST sites with the potential to affect groundwater quality.

- The Project Site is not listed on the SLIC list. Ten properties located within a one-mile radius of the Project Site are identified in the SLIC database. Refer to Table 5.2-1 for more information. None of these sites are anticipated to pose an environmental concern to the Project Site.

Table 5.2-1. SLIC Listings

Name/Address	Distance (mi./Direction)	Hydrologic Relation to Project Site	Regulatory Status	Environmental Concern?
ARCO Carson Terminal 2149 Sepulveda	0.034/S	Down	Inactive	No
Chemoil Tank Farm 2365 Sepulveda	0.166/SE	Across Dominguez Channel	Site Assessment Phase	No
Watson Land Co. 2222 Sepulveda	0.166/SE	Across Dominguez Channel	Site Assessment Phase	No
Chemoil Terminals 2365 Sepulveda	0.169/SE	Across Dominguez Channel	Site Assessment Phase	No
Watson Land Co. 2222 Sepulveda	0.231/SE	Across Dominguez Channel	Case Closed	No
ACTA South Parcel Alameda Street	0.253/W	Down	Case Closed	No
KMEP Carson Terminal 2000 E. Sepulveda	0.299/SW	Down	Remediation	No
Kinder Morgan Liquid 2000 E. Sepulveda	0.299/SW	Down	Site Assessment	No
Carson Refinery 2000 E. Sepulveda	0.299/SW	Down	Remediation	No
ARCO Refinery 1801 Sepulveda	0.395/W	Down	Remediation	No

5.2.13 State Equivalent CERCLIS (formerly Cal-Sites List)

The State DTSC and Site Mitigation and Brownfields Reuse Program (SMBRP) have combined databases now identified as EnviroStor. This database includes the formerly known Cal-Sites List, which in turn included the former State of California Abandoned Sites Program Information System (ASPIS) and the BEP databases. The EnviroStor database is a compilation of sites that have been brought to the attention of the California Environmental Protection Agency (Cal EPA), through various means, as being possible sites of hazardous waste activity or contamination. It should be noted that the EnviroStor database is an informational database and not necessarily an action list.

- The Project Site is listed on the Envirostor List. The APCI Carson Facility is listed on the Envirostor List as part of a larger group of properties that includes Texaco, ARCO, and the Los Angeles County Flood Control District. A site screening assessment was completed in 1992. The case is listed as inactive.
- Twenty-four properties located within a one-mile radius of the Project Site were identified in the State Equivalent CERCLIS' EnviroStor database. Refer to the Table 5.2-2 for a summary of each site. Of the 24 sites, none are anticipated to pose an environmental concern to the Project Site.

Table 5.2-2. Envirostor Listings

Name/Address	Distance (mi./Direction)	Hydrologic Relation to Project Site	Regulatory Status	Environmental Concern?
Watson Carbon and Chemical 2021 E. Sepulveda	0.113/SSW	Down	Referred to Other Agency	No
Tesoro Refining and Marketing Co. 23208 S. Alameda	0.13/NNW	Cross	Inactive	No
Wilmington Class & Hold NA	0.273/NE	East of Dominguez Channel	Inactive	No
KMEP Carson Terminal 2000 E. Sepulveda	0.299/SSW	Down	Referred to Other Agency	No
Common Market Container 22700 S. Alameda	0.473/N	Cross	Inactive	No
Laguna Dom Oil SF PL NA	0.516/SSW	Down	Inactive	No
Manual Warehouse NA	0.523/SSW	Down	Inactive	No
BP West Coast Production 1801 E. Sepulveda	0.546/SSW	Down	Referred to RWQCB	No
ARCO Petroleum Products 1801 E. Sepulveda	0.546/W	Down	Refer to RCRA	No
Wilmington Refinery 1622 E. Sepulveda	0.642/W	Down	Refer to Other Agency	No
Matlack Inc. 22422 S. Alameda	0.747/N	Cross	Refer to Other Agency	No
Monsanto Chemical 2100 E. 223 rd	0.813/NW	Cross	Active Remediation	No
Coons Trust Property	0.813/NW	Cross	Land Use	No

Name/Address	Distance (mi.)/Direction	Hydrologic Relation to Project Site	Regulatory Status	Environmental Concern?
2254 E. 223 rd			Restrictions	
Los Angeles Refinery 1520 E. Sepulveda	0.84/SW	Down	RWQCB Lead	No
Stauffer Management 2201 E. Sepulveda	0.84/SW	Down	Active Remediation	No
Manville Plant 2420 223 rd	0.84/NW	Cross	Land Use Restrictions	No
Stauffer Management	0.85/NW	Cross	Inactive	No
Valero Wilmington 1651 Alameda	0.88/SW	Down	Active Remediation	No
Texaco Refining 2101 E. Pacific Coast	0.893/SW	Down	Referred to RWQCB	No

5.2.14 Solid Waste/Landfill Sites

The Solid Waste Assessment Test Program (SWAT) is a database maintained by the California Water Resources Control Board for information on the ground water monitoring of sanitary landfills. The California Integrated Waste Management Board (CIWMB) maintains the Solid Waste Information System (SWIS) pursuant to the Solid Waste Information System (SWIS) pursuant to the Solid Waste Management and Resource Recovery Act of 1972. The SWIS list contains an inventory of active, inactive, and closed solid waste disposal and transfer facilities. The Waste Management Unit Database (WMUDS) is an inventory of waste management units developed by SWRCB and RWQCB staff.

- The Project Site is listed on the WMUDS database due to the past permitted wastewater discharge permit that was issued by Los Angeles County Department of Public Works. One property located within 0.5-miles was identified on the SWAT/SWIS/WMUDS Lists.

Hargrove

NE of Sepulveda & Alameda
 Distance: 1,192 feet
 Direction: West

This site is listed on the SWAT list as undergoing assessment for a potential landfill site. This site is not listed as a known disposal site on the SWIS database. No information was readily available regarding this case. Based on the distance, direction, and current regulatory status, this site is not anticipated to pose an environmental concern to the Project Site.

5.2.15 PCB Activity Database

The PCB Activity Database (PADS) identifies generators, transporters, commercial storage and/or brokers and disposers of PCBs who are required to notify the U.S. EPA of such activities.

- The Project Site was not identified on the PADS List.

5.2.16 Hazardous Materials Incident Reporting System

The Hazardous Materials Incident Reporting System (HMIRS) contains hazardous material spill incidents reported to the U.S. Department of Transportation (DOT).

- The Project Site is not identified on the HMIRS List.

5.2.17 California Hazardous Materials Incident Reporting System

The California Hazardous Materials Incident Reporting System (CHMIRS) is maintained by the California Office of Emergency Services and contains information on reported hazardous materials accidental releases or spills.

- The Project Site is not listed on the CHMIRS list.

5.2.18 Resource Conservation And Recovery Information System

The U.S. EPA's Resource Conservation and Recovery Information System identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS-Generators database is a compilation by the U.S. EPA of reporting facilities that generate hazardous waste.

- The Project Site is listed on the RCRIS List as a large quantity hazardous waste generator. The APCI Facility reportedly generates wastes that are determined to be hazardous based on flashpoint, pH values. However, the APCI Facility is not listed with reported violations.

5.2.19 Proposition 65 Notification Records

Proposition 65 Notification Records database (Notify 65) contains facility notification about any releases which could impact drinking water and thereby expose the public to a potential health risk.

- The Project Site was not identified on the Notify 65 List.

5.2.20 Federally Utilized Defense Sites

The Federally Utilized Defense Sites (FUDS) list is a list of properties that were historically utilized for the national defense.

- The Project Site is not listed on the FUDS List. One property within 0.5-miles is listed on the FUDS list.

Wilmington Class and Hold Yard

No Address

Distance: 1,444 feet

Direction: Northeast

This site is located within the existing rail yard located east of the Dominguez Channel. This site is listed as being acquired by the U.S. Army in 1943. This site is located east of the Dominguez Channel, which is anticipated to be a hydrologic barrier to the migration of contaminants towards the Project Site. Based on the distance direction, and hydrogeologic relationship to the Project Site, this site is not anticipated to be an environmental concern to the Project Site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the scope of services performed for this ESA, Padre makes the following conclusions regarding the Project Site.

The proposed pipeline alignment would cross industrial land within the current APCI Carson Facility and Tesoro/Marathon pipeline corridor. The proposed pipeline would be placed in an aboveground pipe rack within the majority of the APCI Facility and buried throughout the pipeline corridor segment. The scope of the Phase I ESA was limited to the proposed alignment of the new pipeline segment requiring ground disturbance and potentially encountering contaminated soil.

On the basis of a review of available historical topographic maps and historical aerial photographs, Padre concludes that the APCI Carson Facility has been utilized for industrial uses since the 1960s. The pipeline corridor has been utilized as a railroad siding and later a pipeline corridor since at least the 1960s. Petroleum hydrocarbon-containing soils have been previously identified by APCI during past pipeline repair-related excavation activities within the Tesoro/Marathon pipeline corridor property.

Padre concludes that the shallow soils along the proposed pipeline route have been impacted by petroleum hydrocarbons and potentially additional contaminants which represents a REC at the Project Site. Padre makes the following recommendations regarding the areas of potential environmental concern along the proposed pipeline alignment:

- A Phase II site assessment should be completed in areas along the proposed pipeline route identified with a high likelihood of encountering soil from current or historical petroleum transportation or refining activities. The Phase II assessment activities would be required only in areas along the proposed pipeline route where the pipeline would be installed underground. The objective of the Phase II site assessment activities would be to identify the areas of soil contamination where special worker protection and waste handling/disposal requirements would be needed during pipeline construction activities.
- A Contaminated Materials Management Plan (CMMP) should be prepared and implemented during the construction activities at the Project Site. The CMMP should include the results of the Phase II site assessment activities, and maps showing areas of suspected or known soil contamination. The CMMP should also include the methods for identification for contaminated materials, and removal/disposal of contaminated materials. A site-specific Health and Safety Plan should also be developed for the protection of workers and the community during the handling of contaminated materials.

7.0 LIMITATIONS

This report has been prepared for the sole benefit of Air Products and Chemicals, Inc. No other persons may rely on the findings of this report without the expressed written consent of Air Products and Padre Associates, Inc.

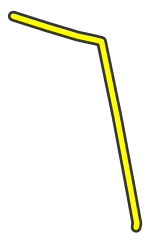
In performing our professional services, we have attempted to apply present engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of work and in locale of the project site for similar type studies. Padre Associates, Inc. makes no warranty, expressed or implied.

The analyses and interpretations presented in this report have been developed based on the results from the review of existing information pertaining to the Project Site.

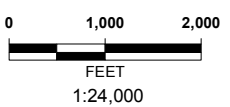
8.0 REFERENCES AND PERSONS CONSULTED

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PLATES




Source: USGS Topo 7.5' Quad, County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only



USGS 7.5' Quadrangle: Long Beach
 Legal Description: T4S, R13W Sec.22

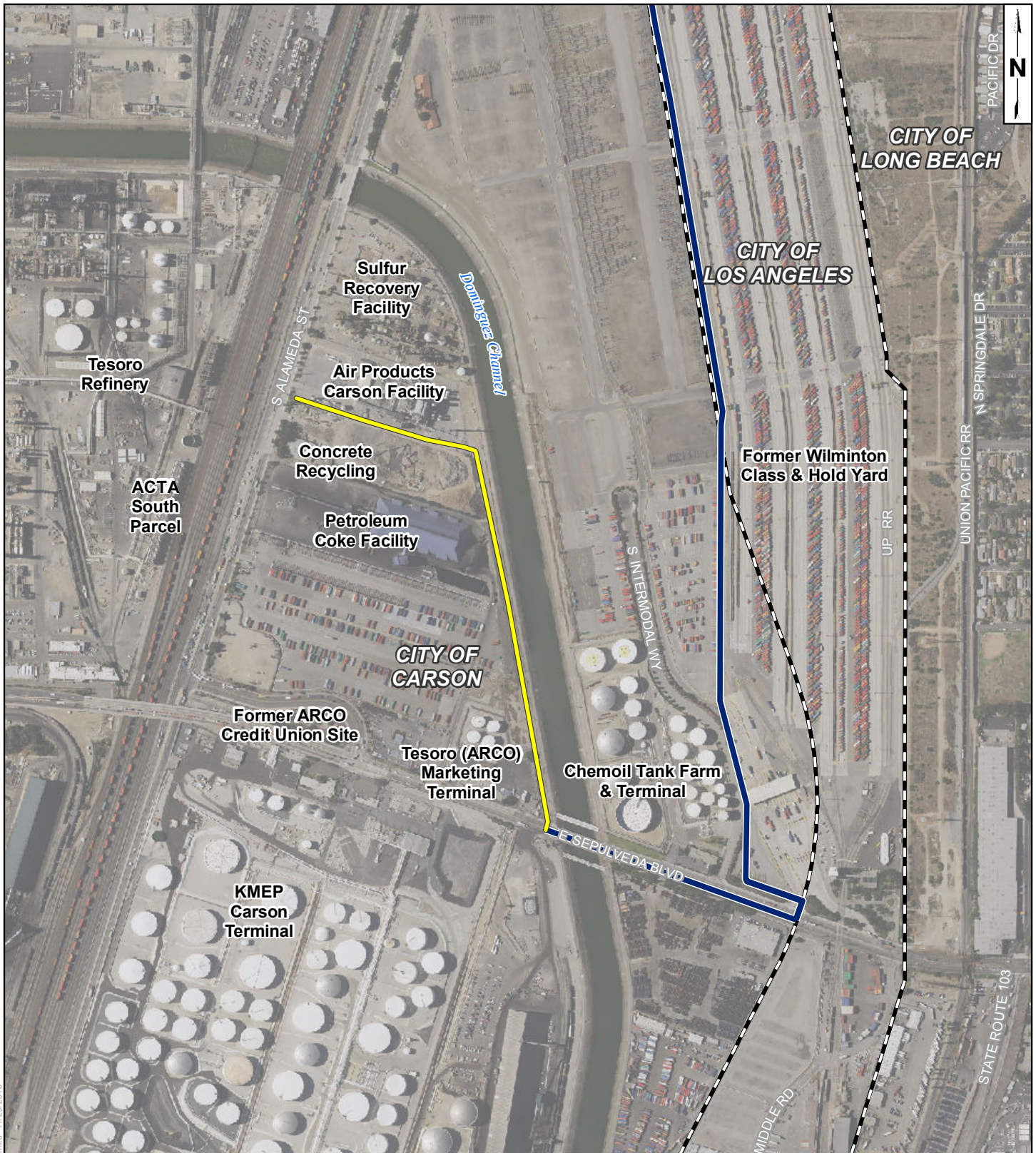
LEGEND:

 Proposed Pipeline



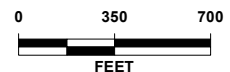
Carson to Paramount Pipeline Phase I ESA Project Location.mxd 11/27/2018

PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA		PROJECT LOCATION	PLATE 1
PROJECT NUMBER: 1802-2611	DATE: November 2018		



LEGEND:

- City Boundary
- Proposed Pipeline
- Existing Pipeline Segment
- PPC Line 4, Seg. 8



Source: NAIP Image 2016, Paramount Pipeline Co., County of Los Angeles
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.



PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: November 2018

<h1>SITE PLAN</h1>
PLATE 2

Carson to Paramount Pipeline/Phase I/ESA/Site Plan.mxd - 11/29/2018

APPENDIX A — SITE PHOTOGRAPHS



Photo 1. Construction area for one half mile of new pipe at Carson Facility. Segment: 1



Photo 2. Air Products Hydrogen plant in Carson. Segment:1



Photo 3. Dominguez Channel as bordered new pipeline at the Carson Facility. Segment: 1



Photo 4. Trenching section for new pipeline. Segment: 1



Photo 5. Petroleum coke facility along pipeline route.



Photo 6. View of Concrete Recycling Facility west of pipeline corridor.




Photo 7. View of pipeline markers along pipeline corridor.



Photo 8. View of End of pipeline corridor area at Sepulveda Boulevard.

Site Photographs
Appendix A

APPENDIX B — HISTORICAL INFORMAITON



Air Products
S. Alameda Street
Long Beach, CA 90810

Inquiry Number: 5419663.3

September 10, 2018

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/10/18

Site Name:

Air Products
S. Alameda Street
Long Beach, CA 90810
EDR Inquiry # 5419663.3

Client Name:

Padre Associates, Inc
369 Pacific Street
San Luis Obispo, CA 93401
Contact: Eric Snelling



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Padre Associates, Inc were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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 # 28DB-4A6B-A789

PO # NA

Project 1802-2611

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 #: 28DB-4A6B-A789

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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Air Products

S. Alameda Street

Long Beach, CA 90810

Inquiry Number: 5419663.4

September 10, 2018

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

09/10/18

Site Name:

Air Products
S. Alameda Street
Long Beach, CA 90810
EDR Inquiry # 5419663.4

Client Name:

Padre Associates, Inc
369 Pacific Street
San Luis Obispo, CA 93401
Contact: Eric Snelling



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Padre Associates, Inc 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. EDR's 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:	33.809444 33° 48' 34" North
Project:	1802-2611	Longitude:	-118.229167 -118° 13' 45" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	386232.91
		UTM Y Meters:	3741706.92
		Elevation:	19.00' above sea level

Maps Provided:

2012	1930
1981	1923, 1924
1972	1902
1964	1899
1949	1896
1947, 1948	
1943	
1942	

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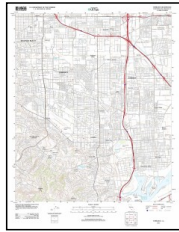
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

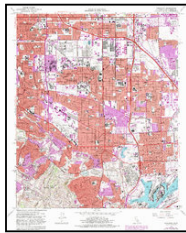


Long Beach
2012
7.5-minute, 24000

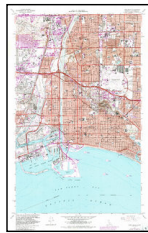


Torrance
2012
7.5-minute, 24000

1981 Source Sheets



Torrance
1981
7.5-minute, 24000

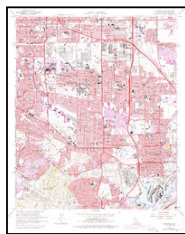


Long Beach
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

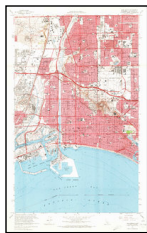


Long Beach
1972
7.5-minute, 24000
Aerial Photo Revised 1972

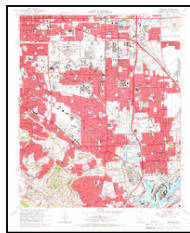


Torrance
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1964 Source Sheets



Long Beach
1964
7.5-minute, 24000
Aerial Photo Revised 1963



Torrance
1964
7.5-minute, 24000
Aerial Photo Revised 1963

Topo Sheet Key

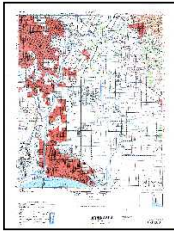
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1949 Source Sheets



Long Beach
1949
7.5-minute, 24000

1947, 1948 Source Sheets

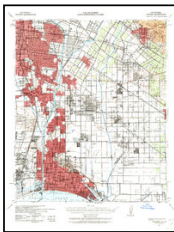


DOWNEY
1947
15-minute, 50000



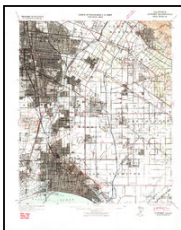
REDONDO
1948
15-minute, 50000

1943 Source Sheets



Downey
1943
15-minute, 62500
Aerial Photo Revised 1939

1942 Source Sheets



Downey
1942
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1930 Source Sheets



Compton
1930
7.5-minute, 24000

1923, 1924 Source Sheets



Wilmington
1923
7.5-minute, 24000



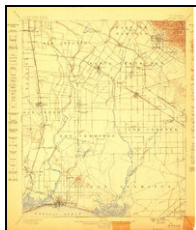
Compton
1924
7.5-minute, 24000

1902 Source Sheets



Downey
1902
15-minute, 62500

1899 Source Sheets



Downey
1899
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

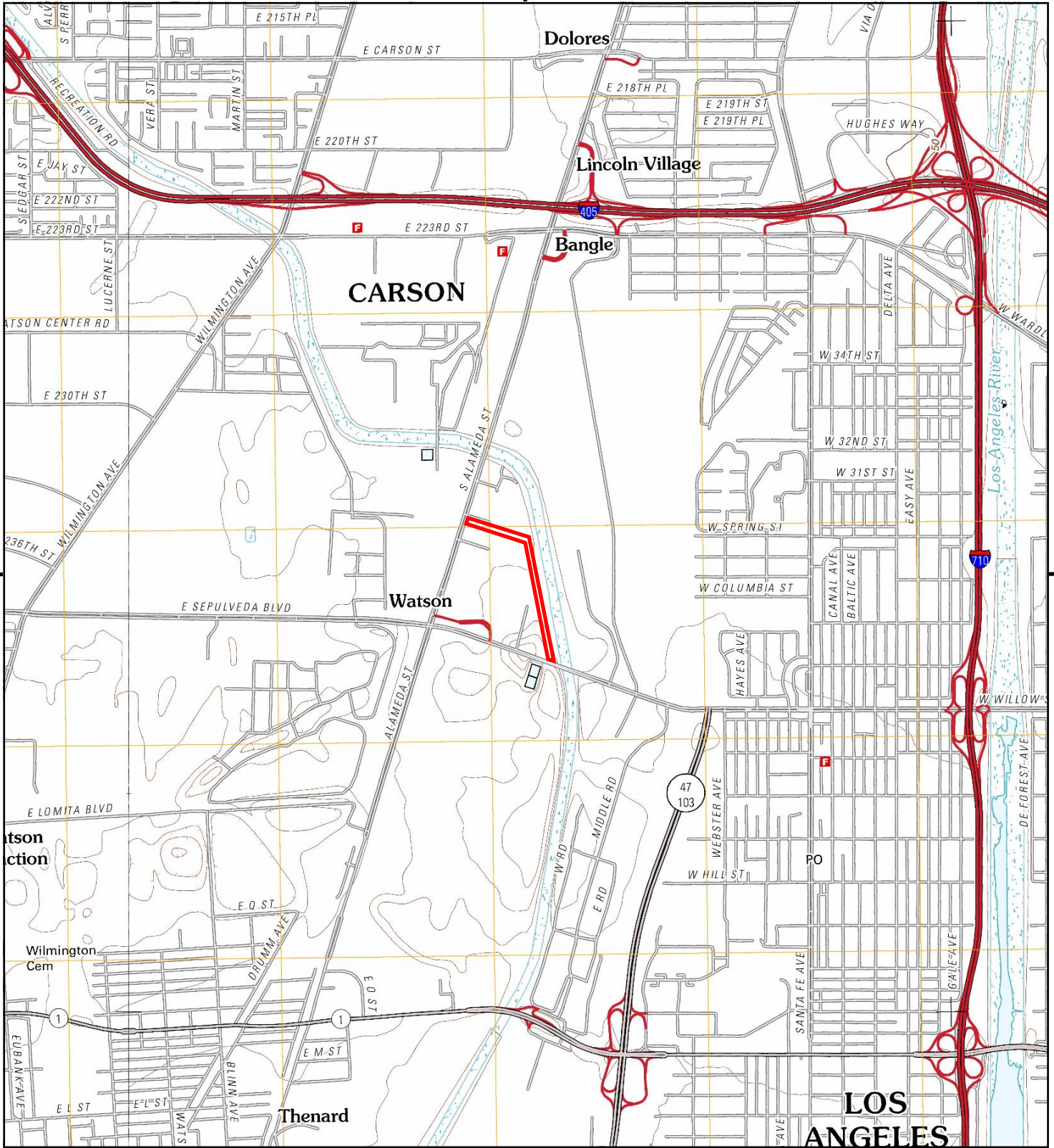
1896 Source Sheets



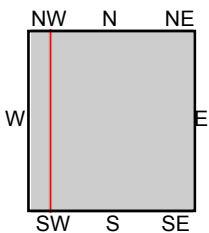
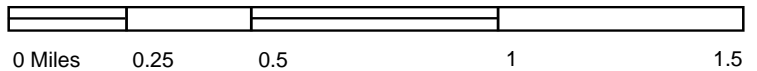
Downey
1896
15-minute, 62500



Redondo
1896
15-minute, 62500



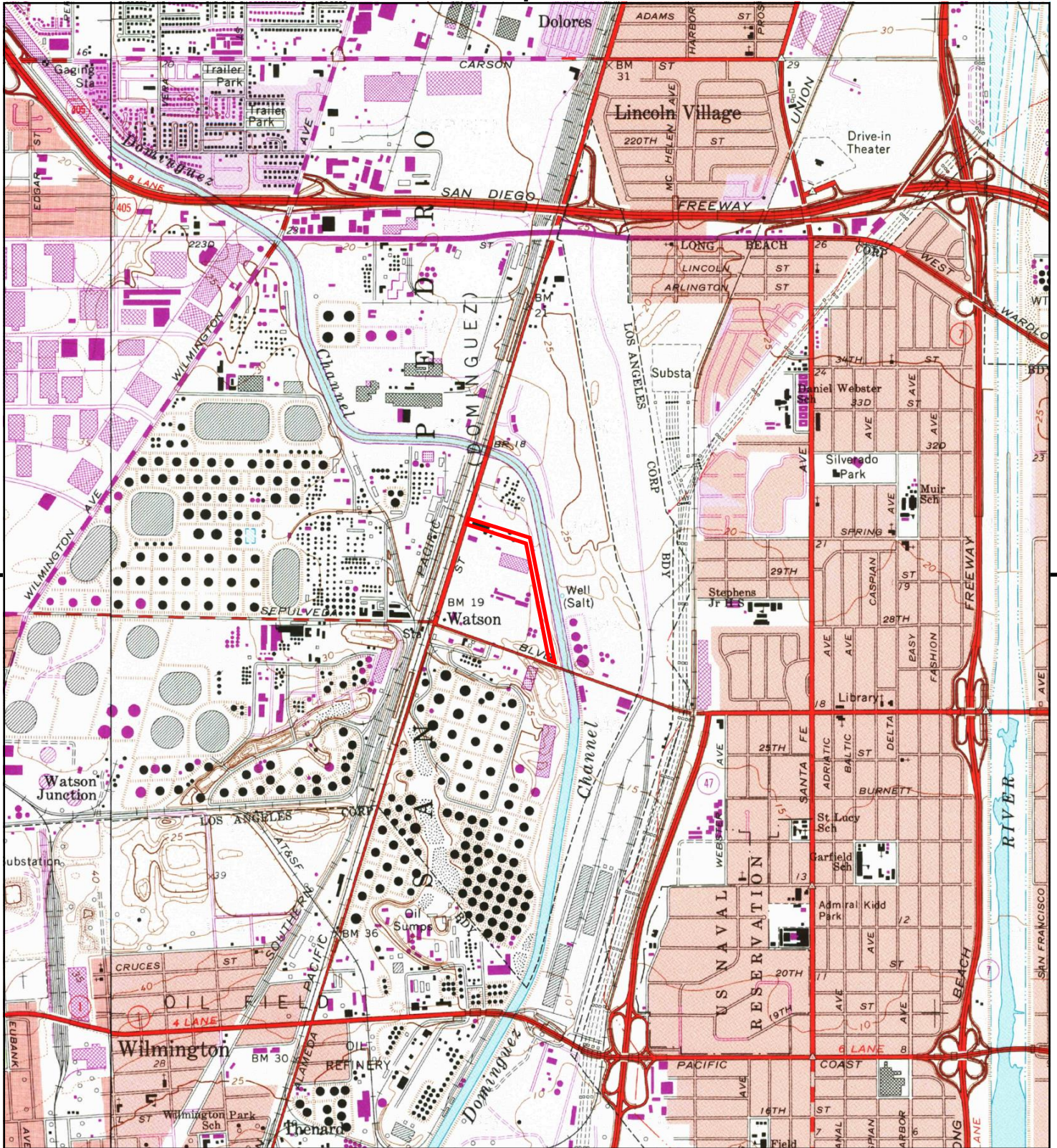
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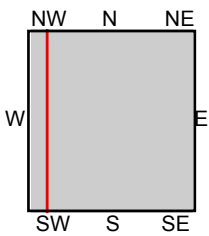
TP, Long Beach, 2012, 7.5-minute
 W, Torrance, 2012, 7.5-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
 Long Beach, CA 90810
CLIENT: Padre Associates, Inc





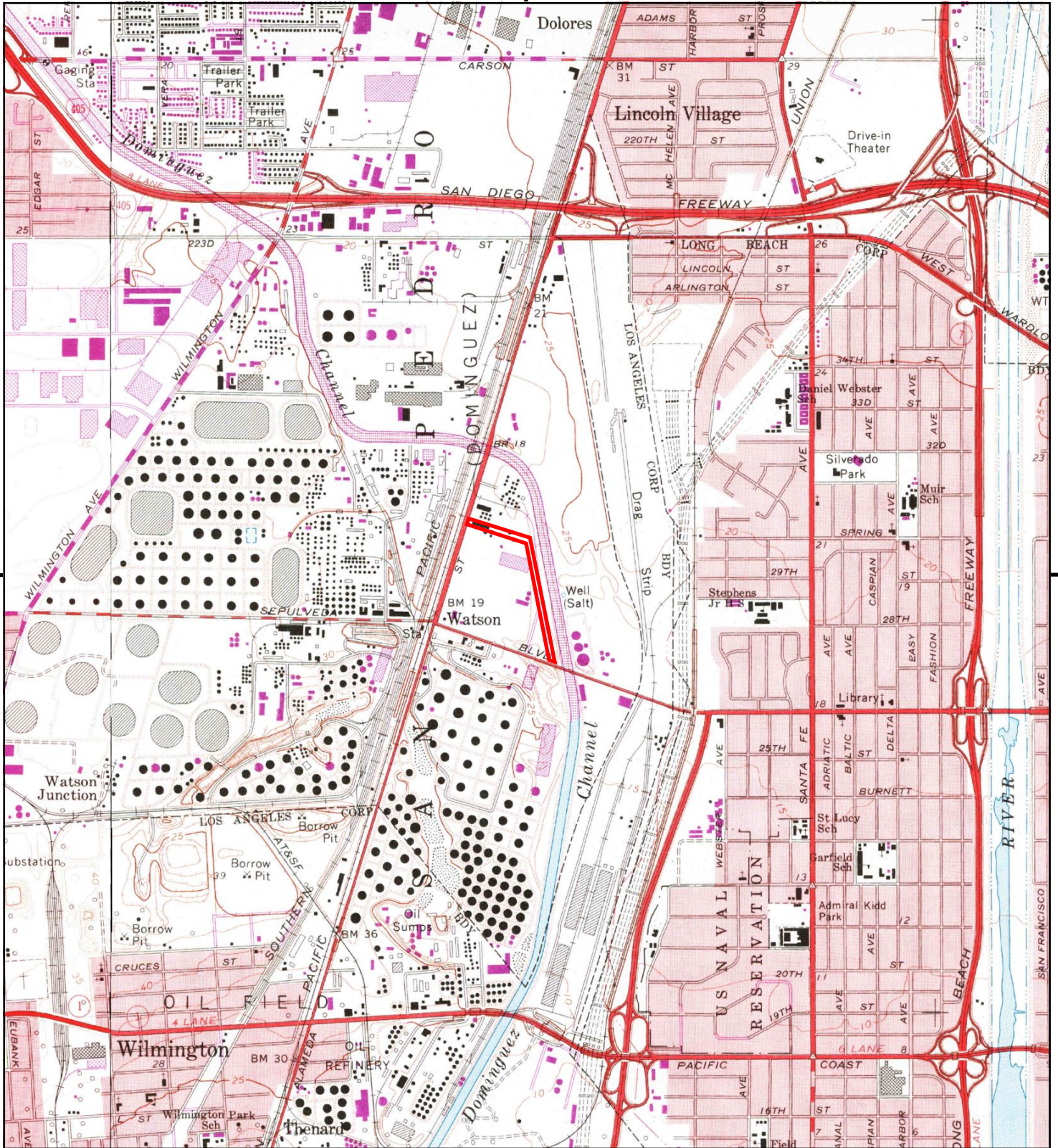
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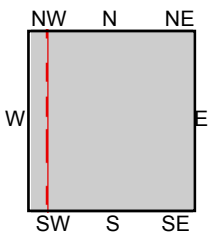
TP, Long Beach, 1981, 7.5-minute
 W, Torrance, 1981, 7.5-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
 Long Beach, CA 90810
CLIENT: Padre Associates, Inc





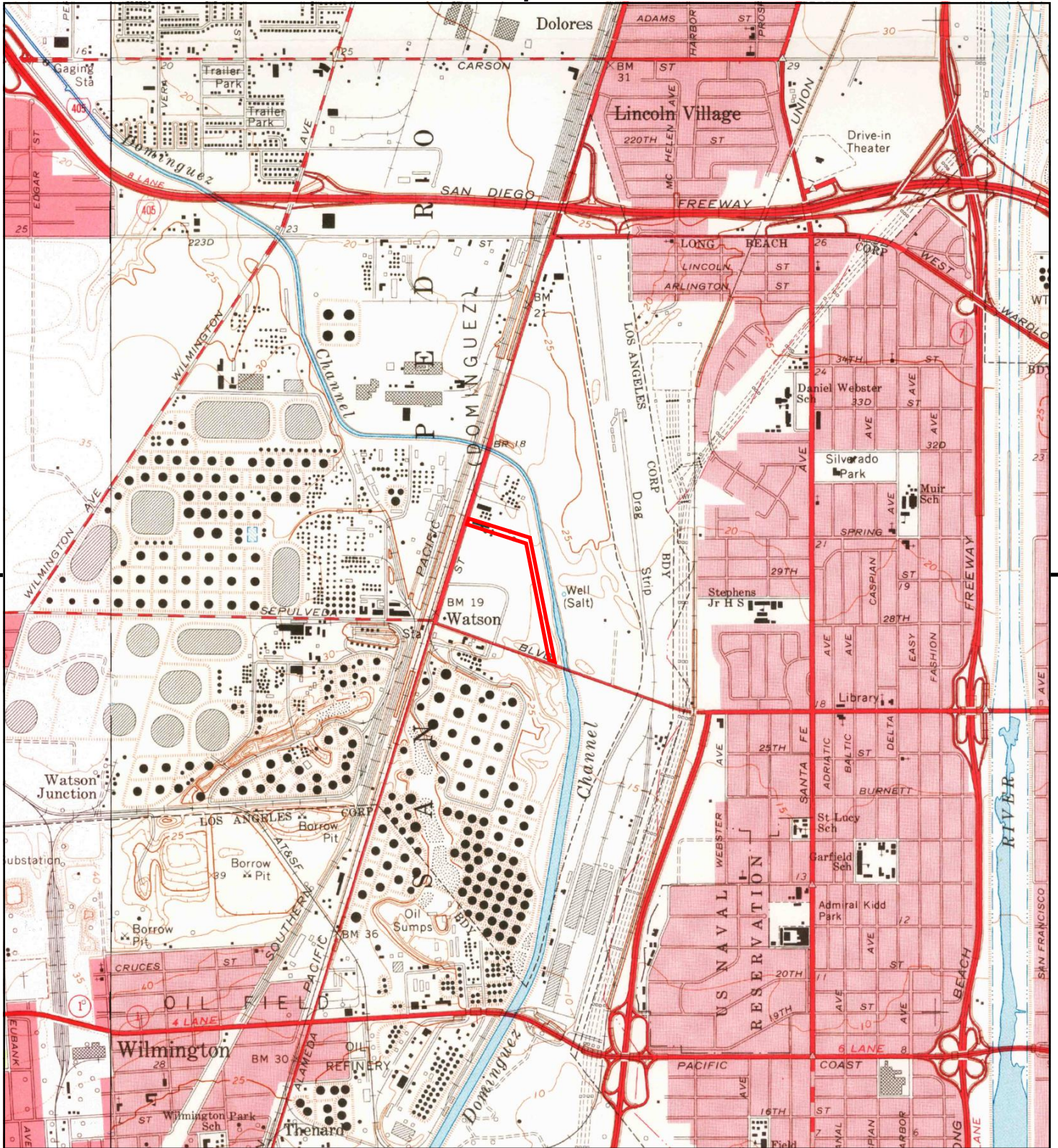
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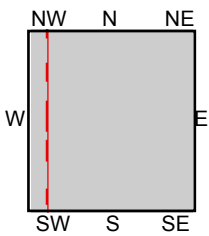
TP, Long Beach, 1972, 7.5-minute
W, Torrance, 1972, 7.5-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
Long Beach, CA 90810
CLIENT: Padre Associates, Inc





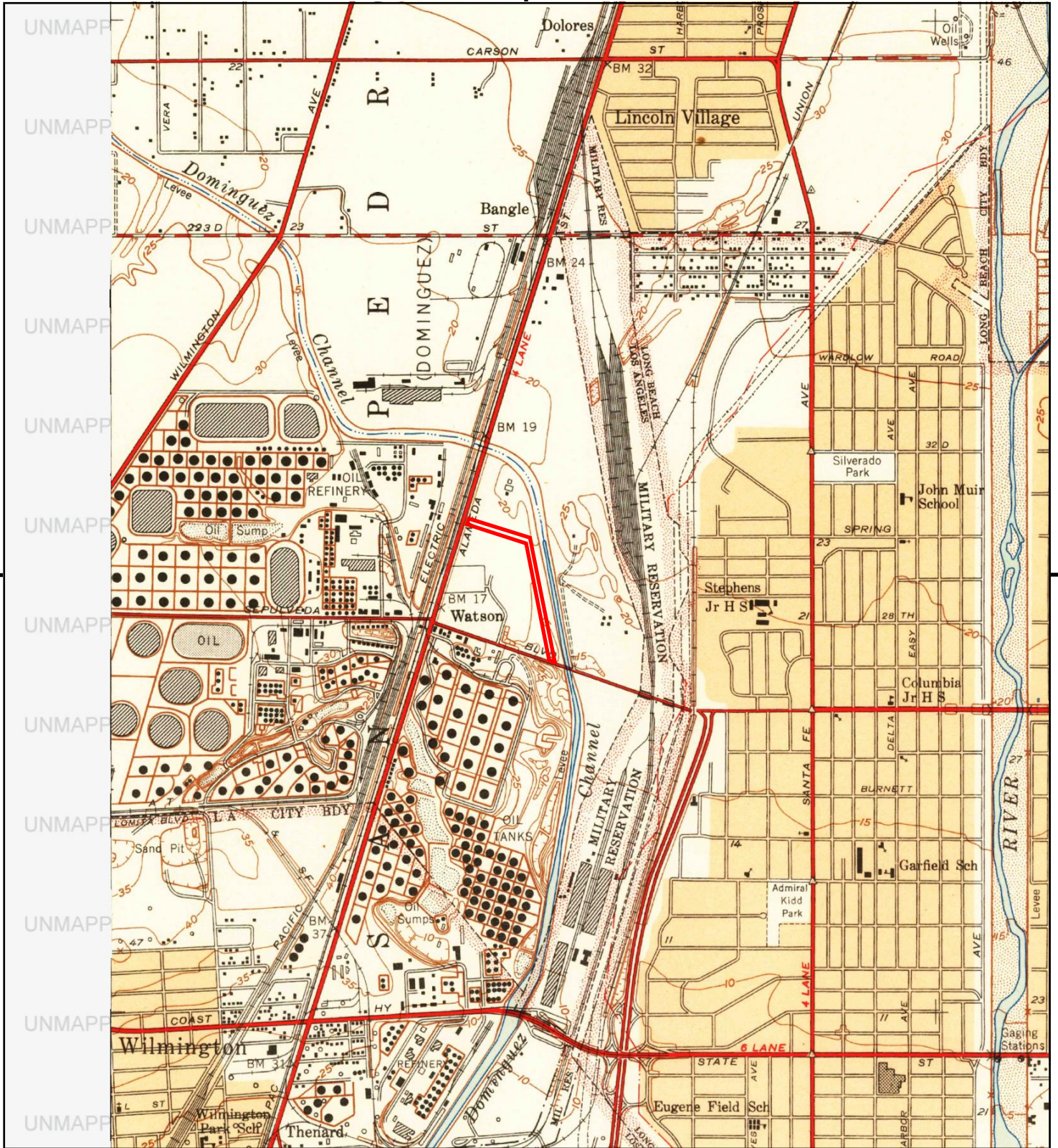
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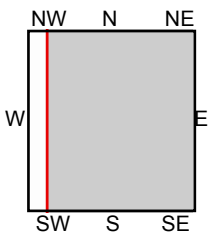
TP, Long Beach, 1964, 7.5-minute
 W, Torrance, 1964, 7.5-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
 Long Beach, CA 90810
CLIENT: Padre Associates, Inc





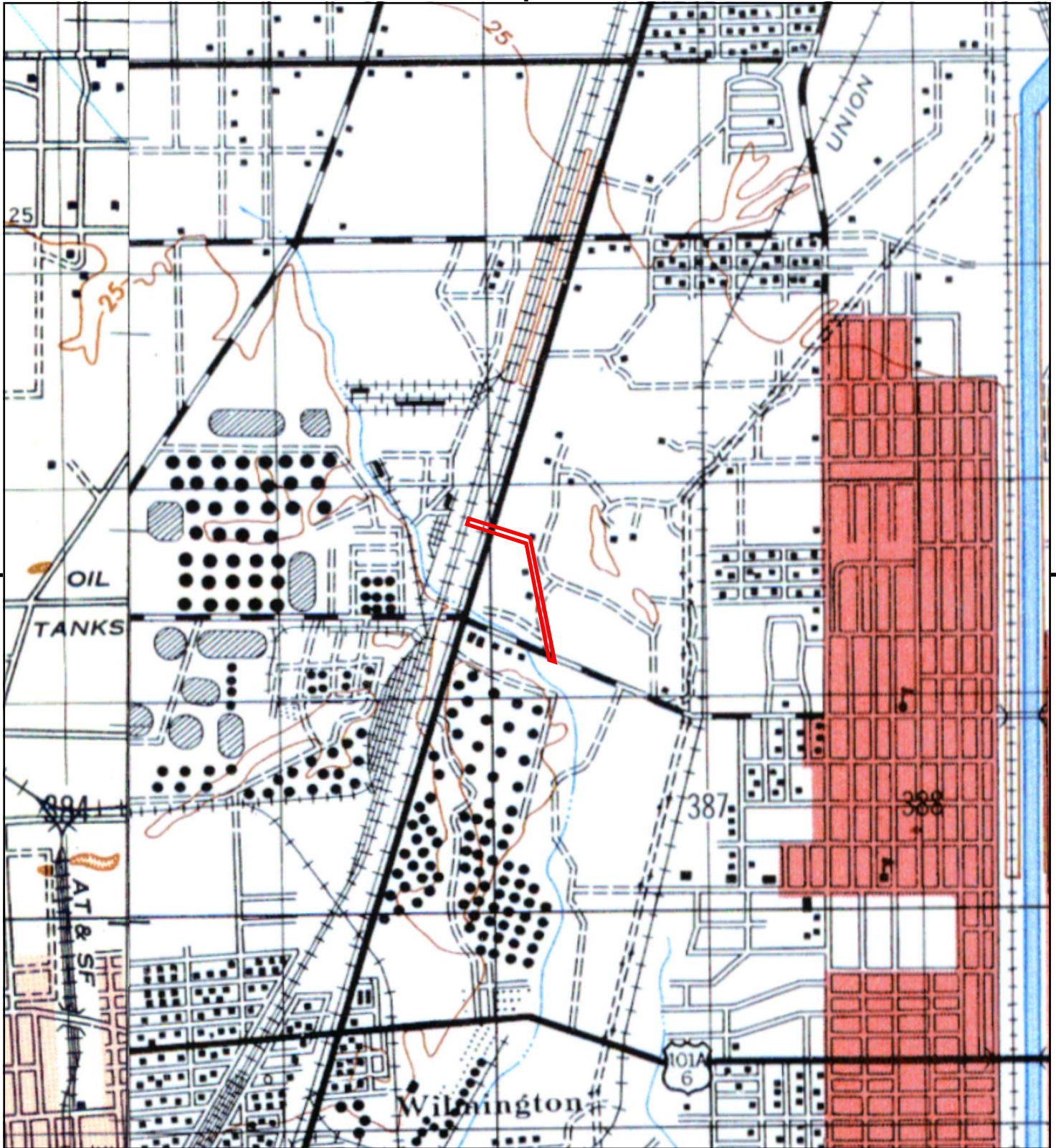
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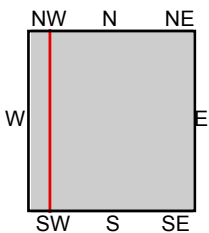
TP, Long Beach, 1949, 7.5-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





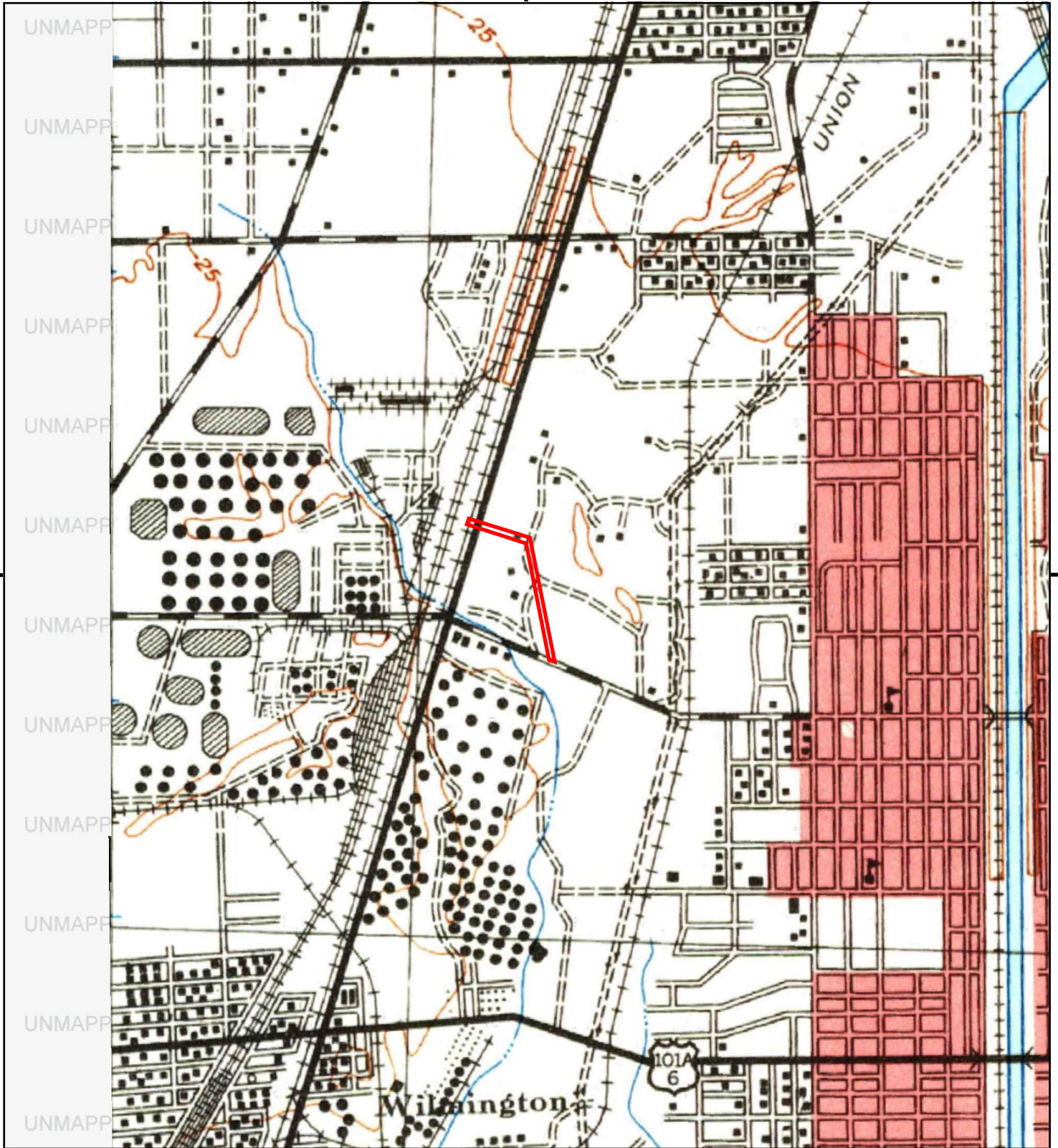
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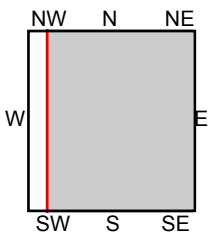
TP, DOWNEY, 1947, 15-minute
NW, REDONDO, 1948, 15-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
Long Beach, CA 90810
CLIENT: Padre Associates, Inc





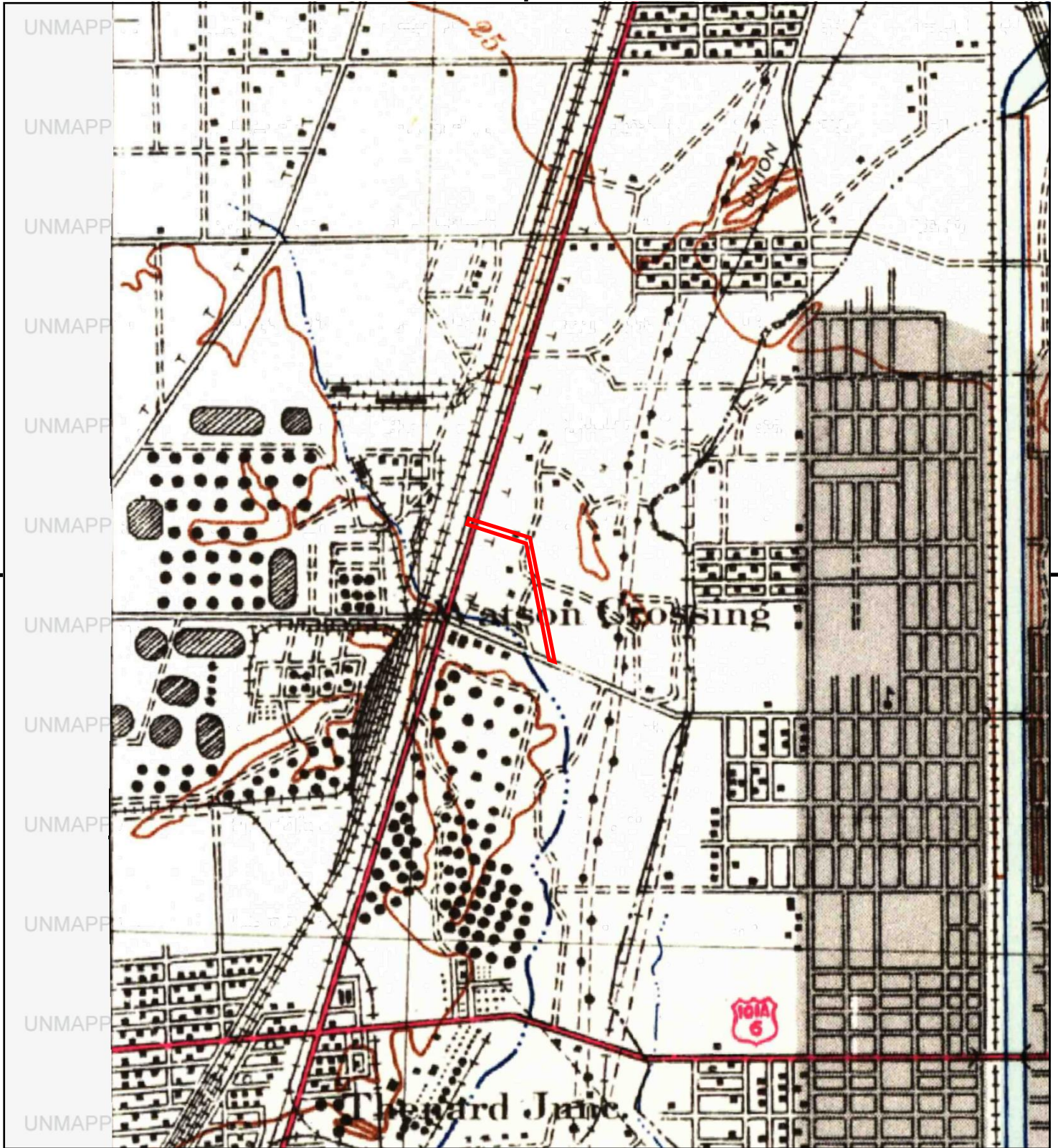
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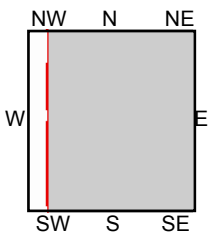
TP, Downey, 1943, 15-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





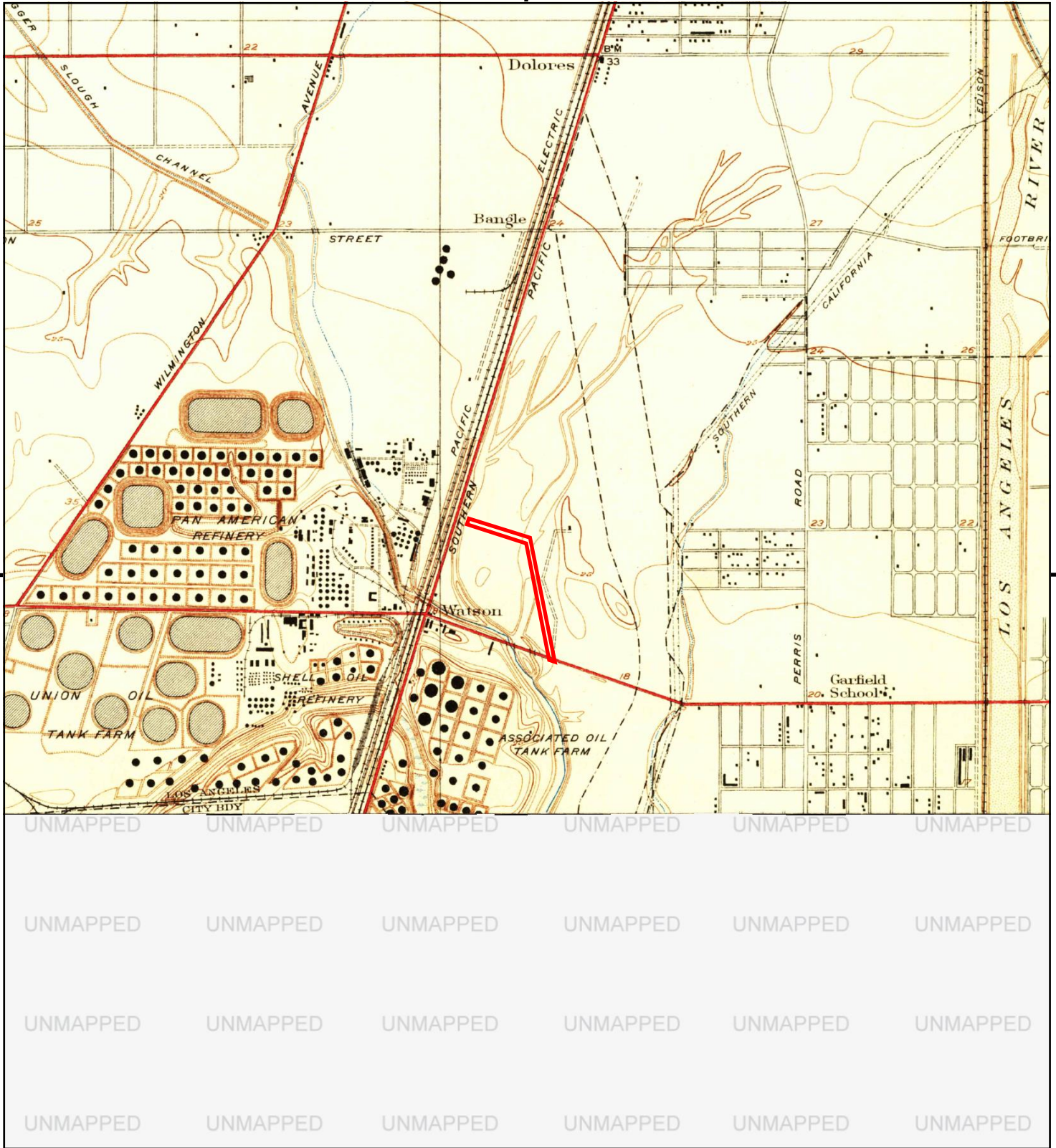
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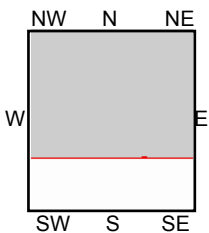
TP, Downey, 1942, 15-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





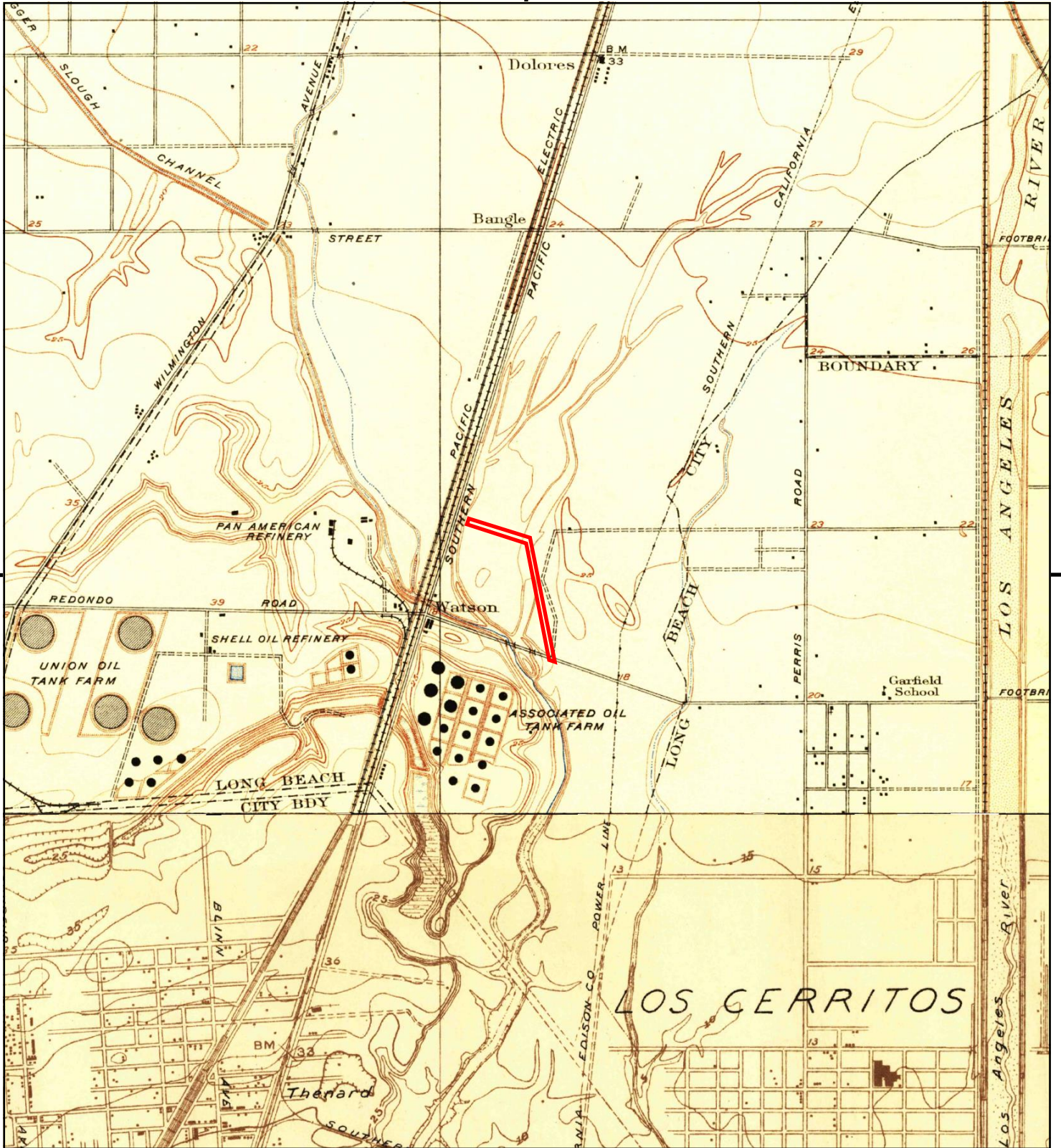
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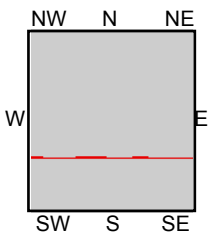
TP, Compton, 1930, 7.5-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





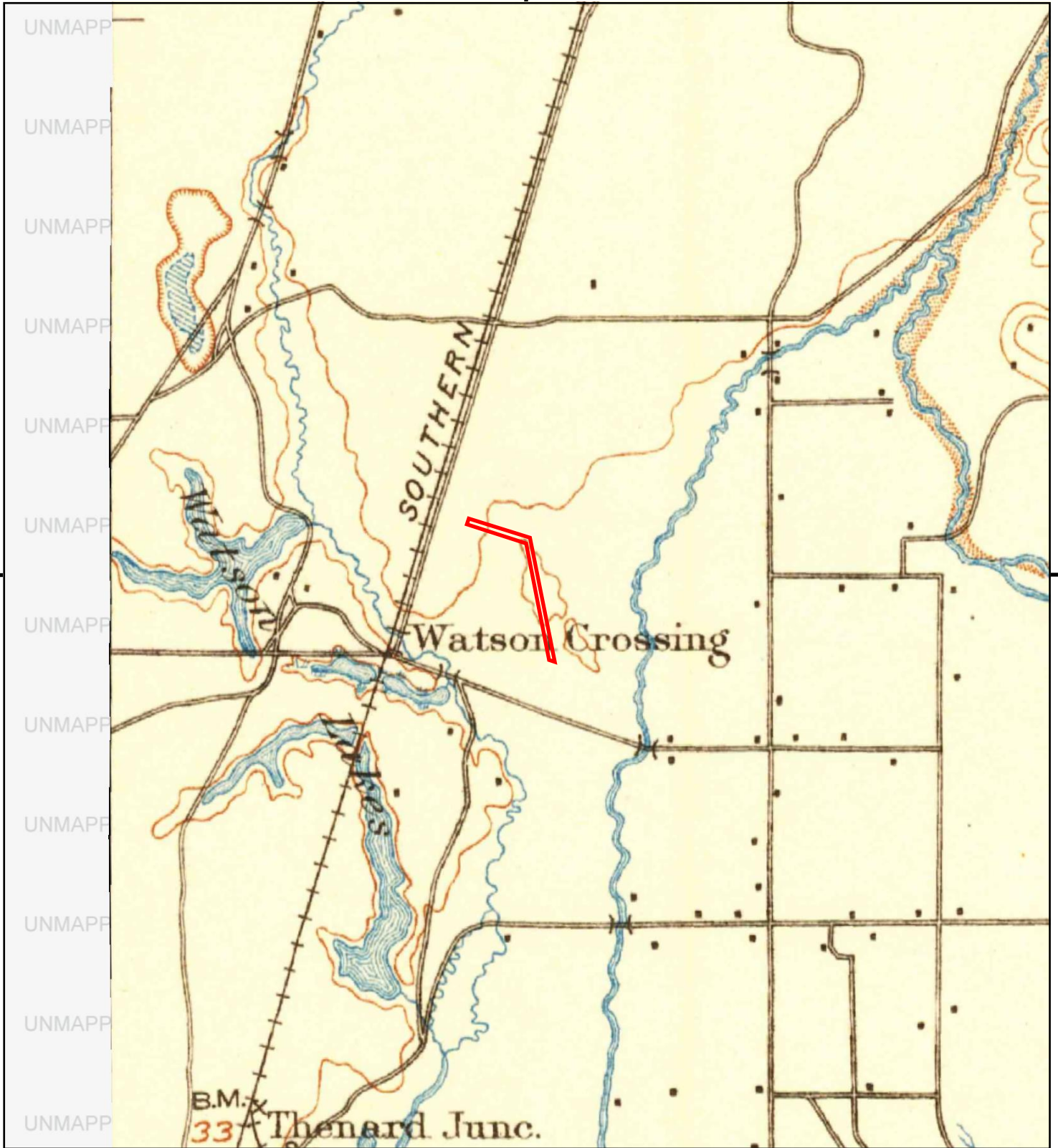
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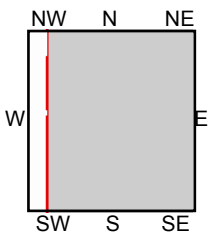
TP, Compton, 1924, 7.5-minute
S, Wilmington, 1923, 7.5-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
Long Beach, CA 90810
CLIENT: Padre Associates, Inc





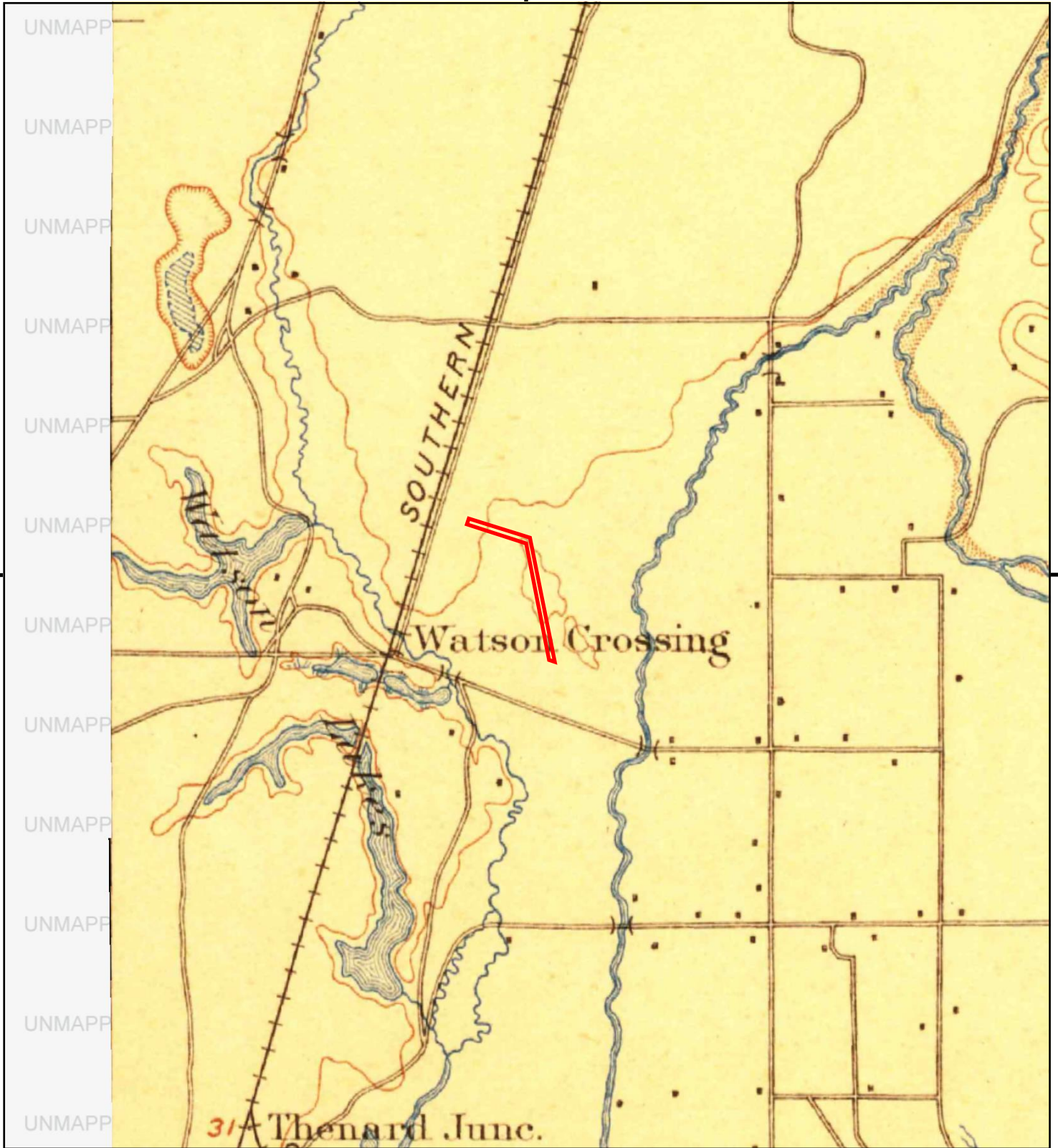
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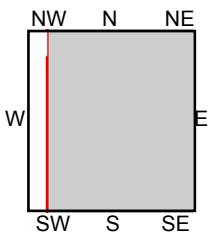
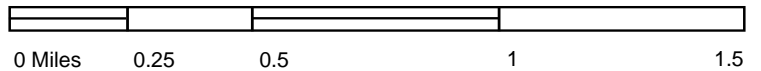
TP, Downey, 1902, 15-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





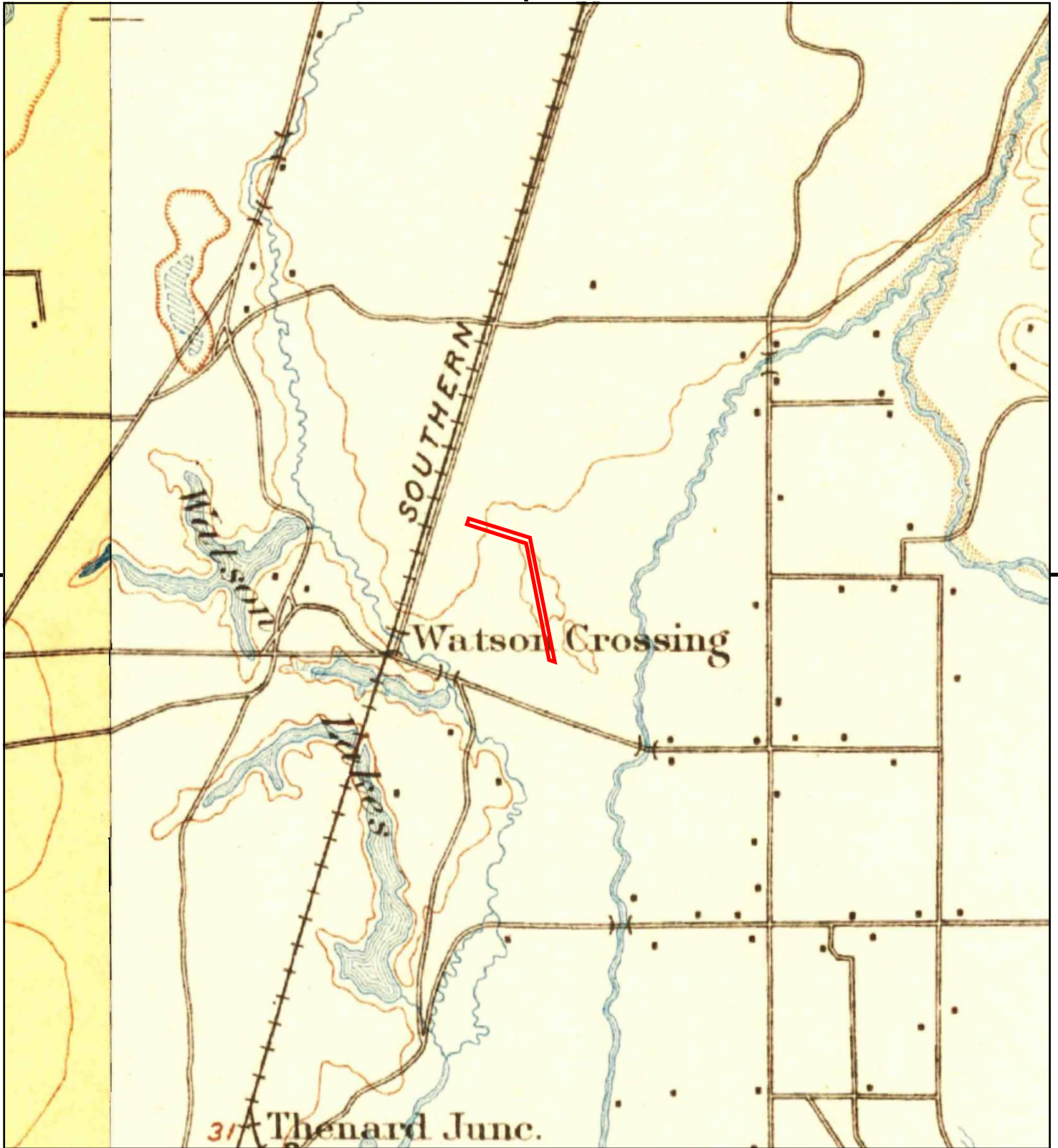
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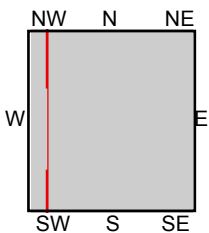
TP, Downey, 1899, 15-minute

SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach, CA 90810
 CLIENT: Padre Associates, Inc





This report includes information from the following map sheet(s).



TP, Downey, 1896, 15-minute
NW, Redondo, 1896, 15-minute

SITE NAME: Air Products
ADDRESS: S. Alameda Street
Long Beach, CA 90810
CLIENT: Padre Associates, Inc





Air Products

S. Alameda Street

Long Beach, CA 90810

Inquiry Number: 5419663.8

September 12, 2018

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

09/12/18

Site Name:

Air Products
S. Alameda Street
Long Beach, CA 90810
EDR Inquiry # 5419663.8

Client Name:

Padre Associates, Inc
369 Pacific Street
San Luis Obispo, CA 93401
Contact: Eric Snelling



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1981	1"=500'	Flight Date: February 21, 1981	USGS
1977	1"=500'	Flight Date: January 18, 1977	USGS
1970	1"=500'	Flight Date: February 19, 1970	USGS
1963	1"=500'	Flight Date: February 28, 1963	USGS
1952	1"=500'	Flight Date: April 12, 1952	USDA
1947	1"=500'	Flight Date: June 17, 1947	USGS
1928	1"=500'	Flight Date: January 01, 1928	USGS

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INQUIRY #: 5419663.8

YEAR: 2016

— = 500'





INQUIRY #: 5419663.8

YEAR: 2012

— = 500'





INQUIRY #: 5419663.8

YEAR: 2009

— = 500'





INQUIRY #: 5419663.8

YEAR: 2005

— = 500'



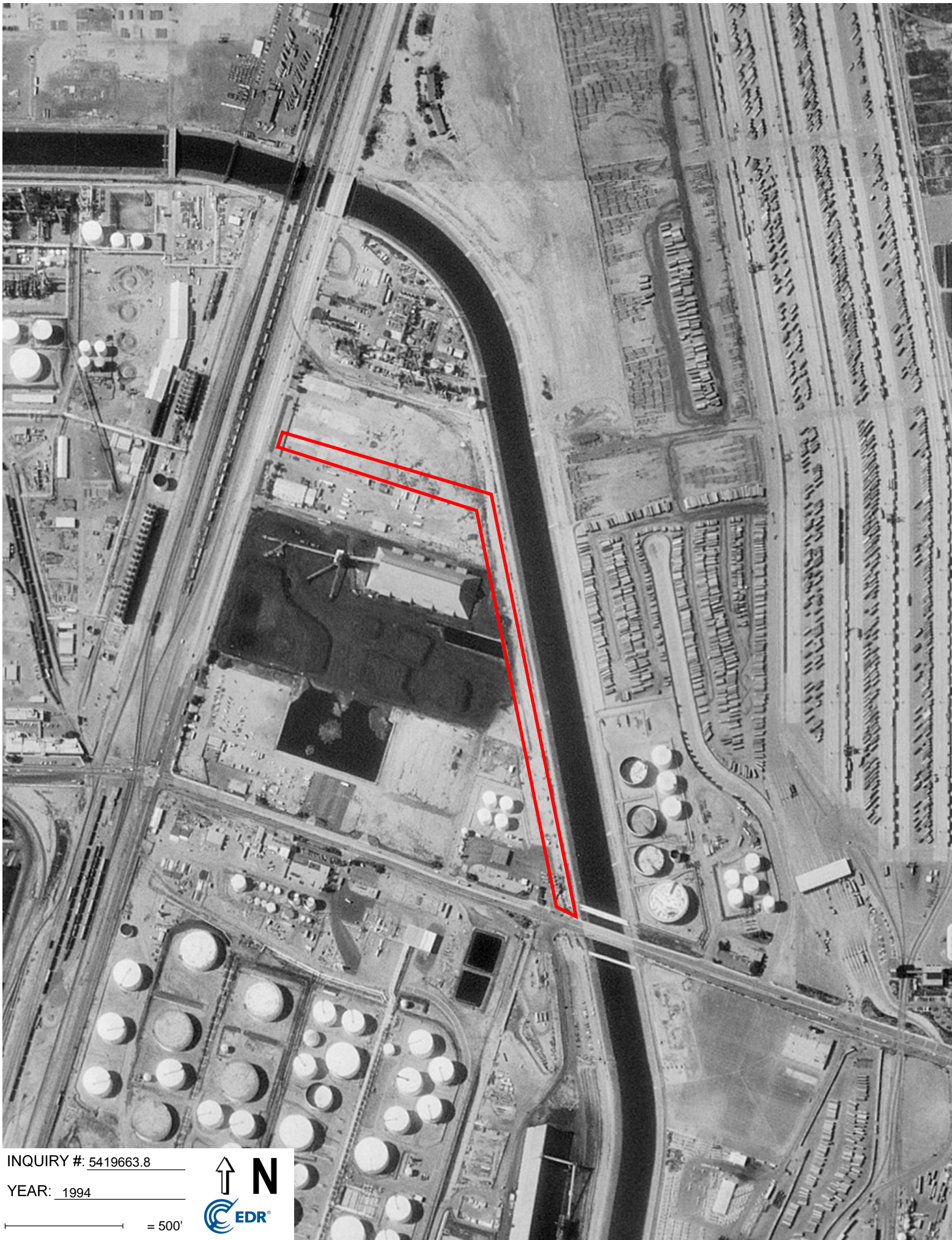


INQUIRY #: 5419663.8

YEAR: 2002

— = 500'





INQUIRY #: 5419663.8

YEAR: 1994

— = 500'



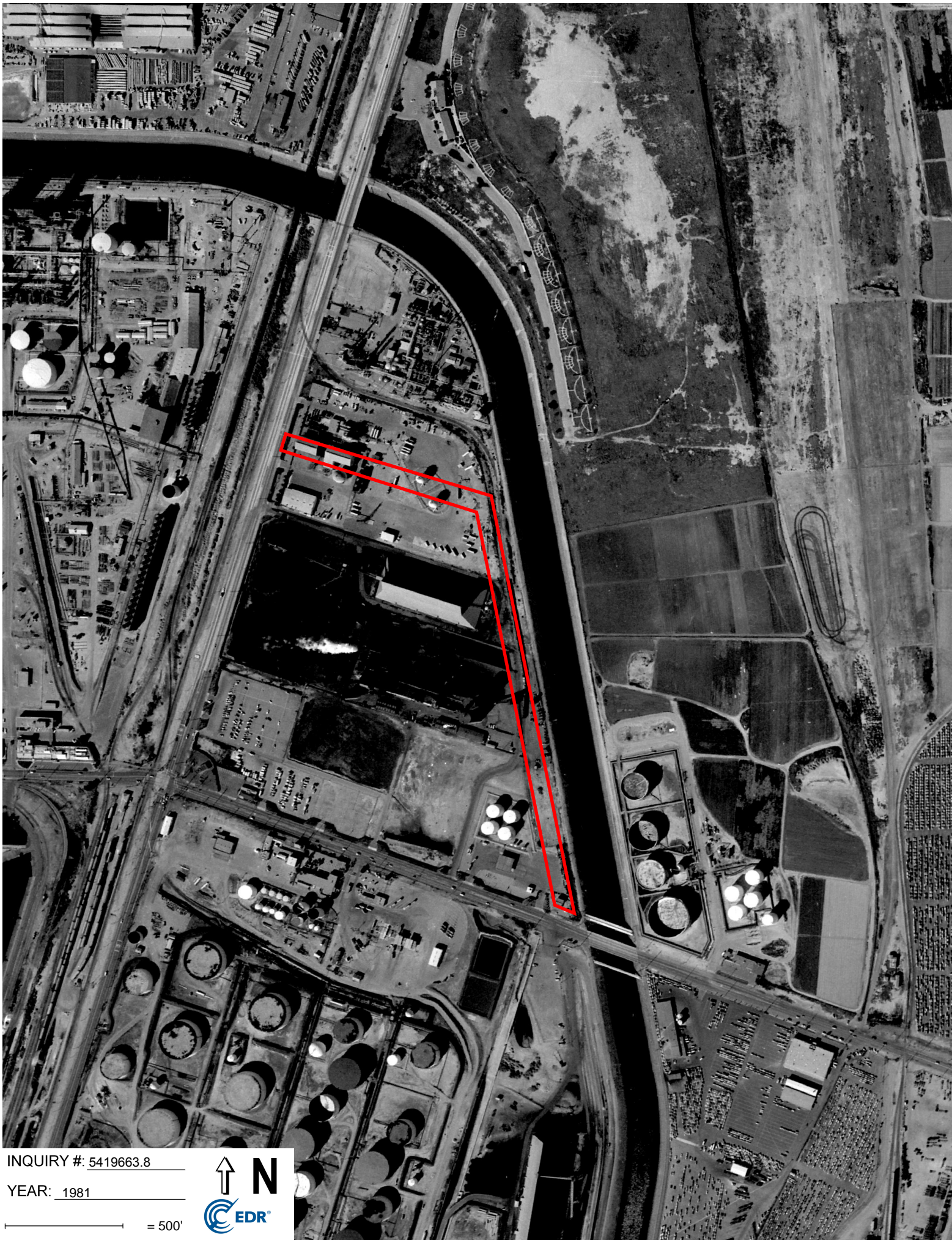


INQUIRY #: 5419663.8

YEAR: 1989

— = 500'



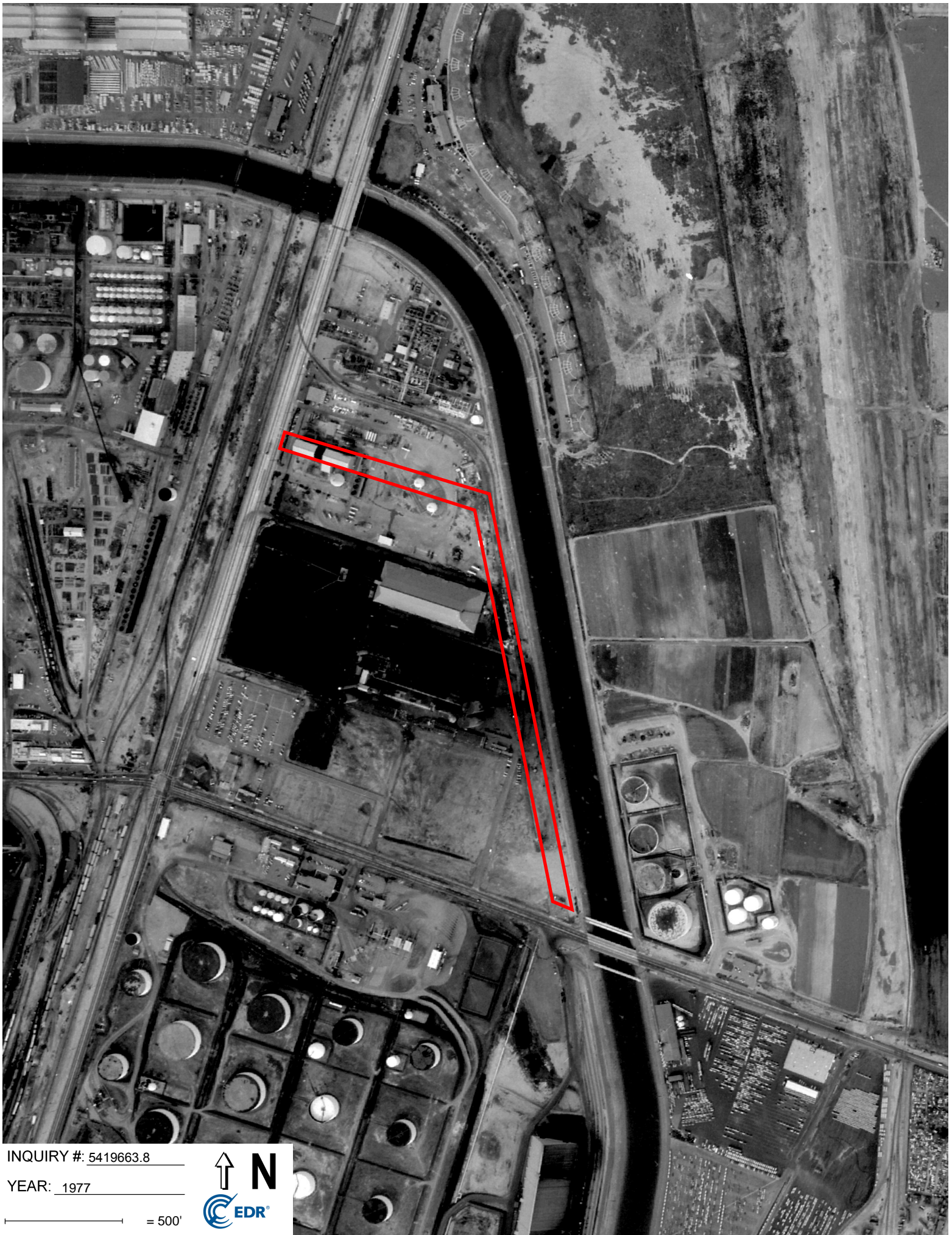


INQUIRY #: 5419663.8

YEAR: 1981

— = 500'





INQUIRY #: 5419663.8

YEAR: 1977

— = 500'



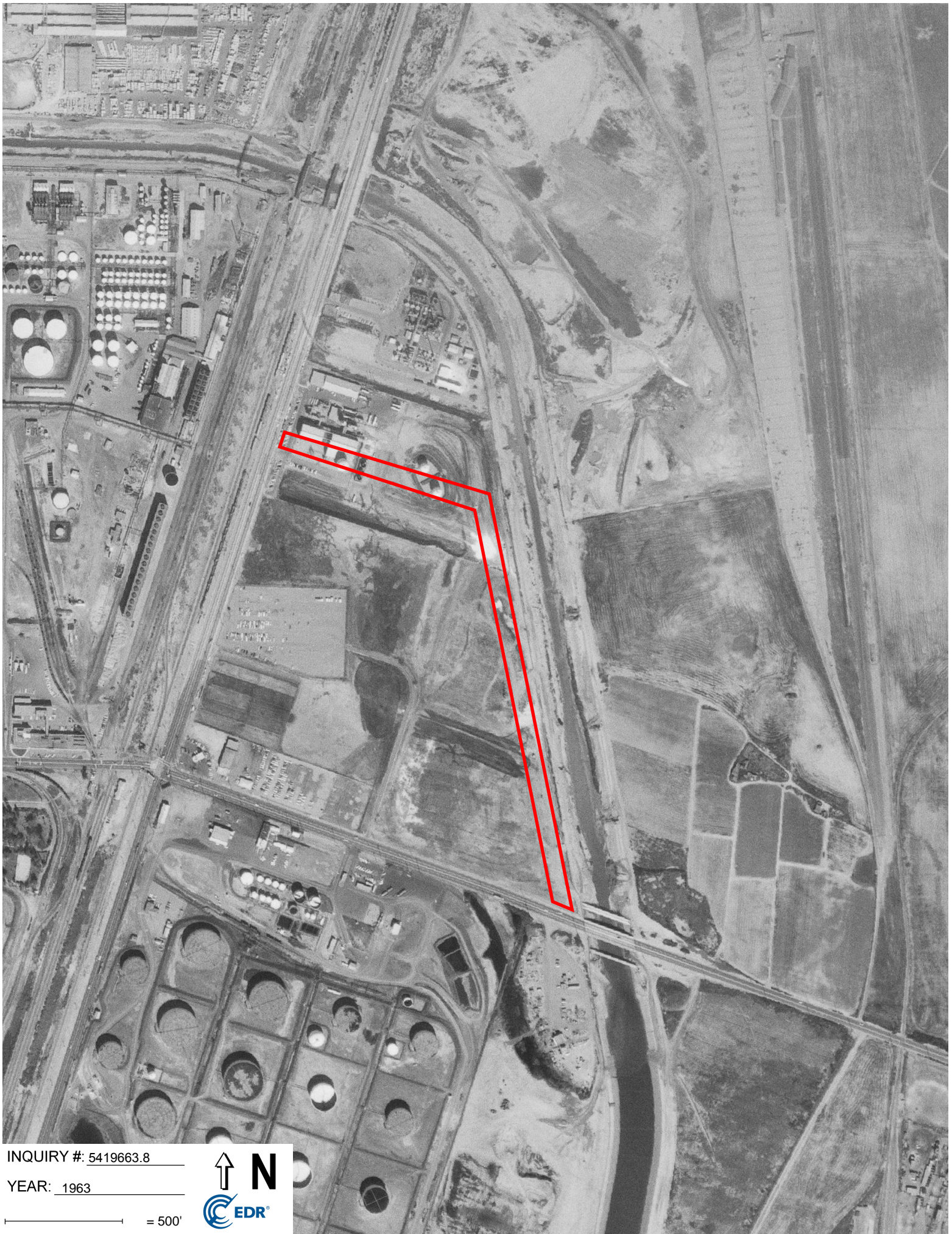


INQUIRY #: 5419663.8

YEAR: 1970

— = 500'



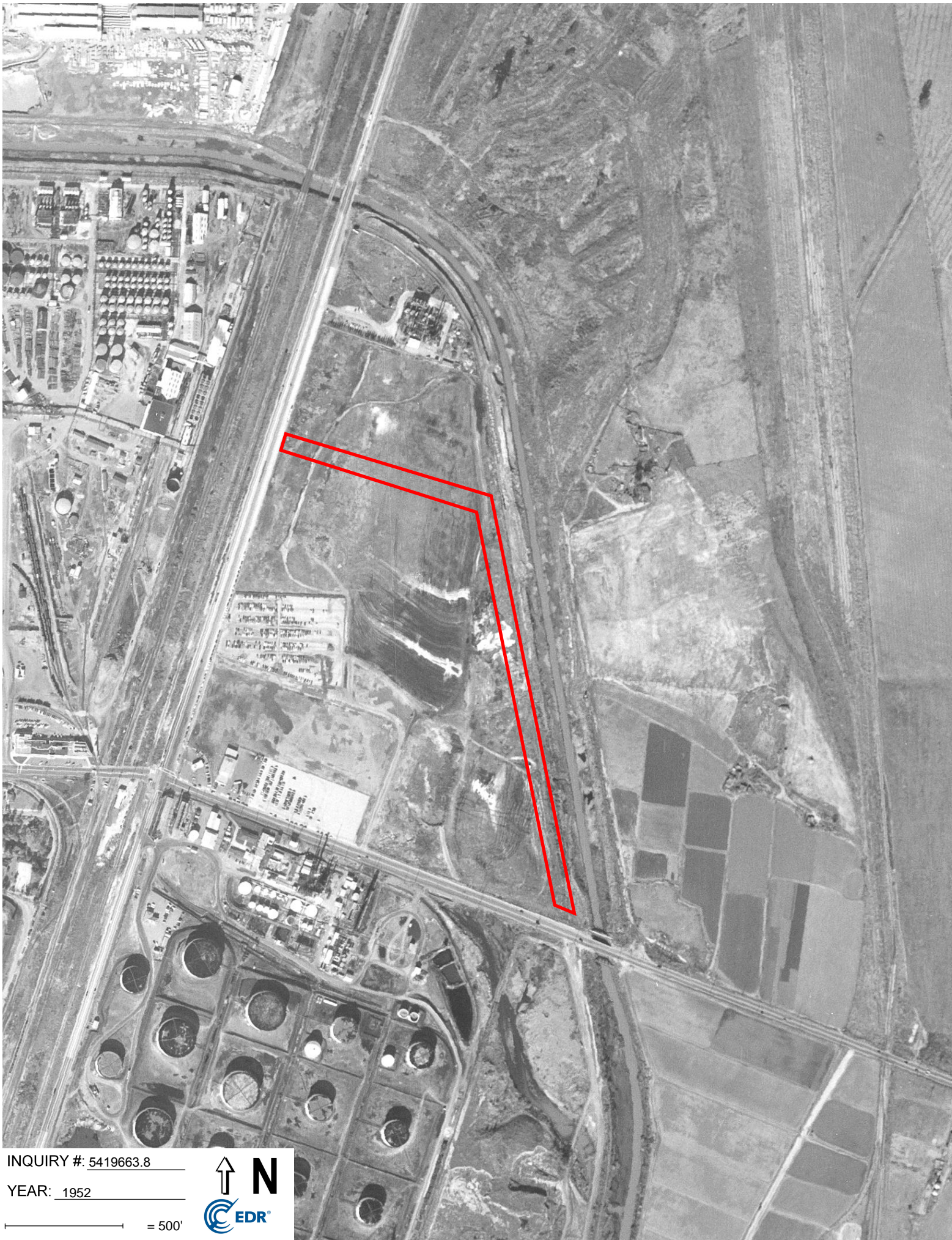


INQUIRY #: 5419663.8

YEAR: 1963

— = 500'





INQUIRY #: 5419663.8

YEAR: 1952

— = 500'





INQUIRY #: 5419663.8

YEAR: 1947

1" = 500'





INQUIRY #: 5419663.8

YEAR: 1928

— = 500'



**APPENDIX C – ENVIRONMENTAL DATABASE REPORT
(PROVIDED ON CD-ROM)**

Air Products

S. Alameda Street
Long Beach, CA 90810

Inquiry Number: 5419663.2s
September 11, 2018

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

S. ALAMEDA STREET
LONG BEACH, CA 90810

COORDINATES

Latitude (North): 33.8094440 - 33° 48' 33.99"
Longitude (West): 118.2291670 - 118° 13' 45.00"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 386230.3
UTM Y (Meters): 3741513.0
Elevation: 19 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5652670 LONG BEACH, CA
Version Date: 2012

West Map: 5633779 TORRANCE, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140513
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
 S. ALAMEDA STREET
 LONG BEACH, CA 90810

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	AIR PRODUCTS AND CHE	23300 S. ALAMEDA STR	RCRA-LQG		TP
A2	AIR PRODUCTS & CHEMI	23300 SOUTH ALAMEDA	FINDS, ECHO		TP
A3	AIR PROD & CHEM INC	23320 S ALAMEDA ST	SWEEPS UST, HIST UST, EMI		TP
A4	SOUTHERN CALIFORNIA	23320 S. ALAMEDA STR	ICIS, US AIRS, FINDS		TP
A5	AIR PRODUCTS AND CHE	23320 S ALAMEDA ST	HIST UST, HAZNET		TP
A6	AIR PRODUCTS & CHEMI	23320 ALAMEDA ST S	LUST		TP
A7	AIR PRODUCTS & CHEMI	23320 ALAMEDA ST S	FINDS		TP
A8	AIR PRODUCTS & CHEMI	23320 ALAMEDA	ENVIROSTOR, CPS-SLIC, HIST CORTESE		TP
A9	AIR PRODUCTS AND CHE	23320 ALAMEDA	CPS-SLIC		TP
A10	AIR PRODUCTS AND CHE	23300 SOUTH ALAMEDA	AST		TP
A11	AIR PRODUCTS MFG COR	23320 S ALAMEDA ST	SWEEPS UST, CA FID UST, LOS ANGELES CO. HMS		TP
A12	AIR PRODUCTS, CARSON	23300 S. ALAMEDA ST.	TSCA, RMP		TP
A13	AIR PRODUCTS & CHEMI	23300 S ALAMEDA ST	TRIS		TP
A14	AIR PRODUCTS, CARSON	23000 S. ALAMEDA ST.	RMP		TP
A15	AIR PRODUCTS AND CHE	901 W 12TH ST	HAZNET		TP
A16	AIR PRODUCTS & CHEMI	23320 ALAMEDA ST S	RGA LUST		TP
A17	AIR PRODS & CHEMS IN	23320 S ALAMEDA ST	SEMS-ARCHIVE, RCRA-SQG		TP
A18	AIR PRODUCTS & CHEMI	23320 ALAMEDA ST S	RGA LUST		TP
Reg	MONTROSE CHEMICAL (M	20201 SOUTH NORMANDI	NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST...	Same	71, 0.013, ENE
B19		23300 S ALAMEDA ST	AST	Higher	70, 0.013, NW
C20	ARCO (CARSON TERMINA	2149 SEPULVEDA	LUST, HIST CORTESE	Higher	181, 0.034, South
C21	ARCO - CARSON TERMIN	2149 SEPULVEDA	CPS-SLIC	Higher	181, 0.034, South
B22	CARSON LIQUID HYDROG	23320 SOUTH ALAMEDA	WMUDS/SWAT	Higher	225, 0.043, NW
C23		2149 E SEPULVEDA BLV	AST	Higher	269, 0.051, South
C24	CARSON PRODUCTS TERM	2149 E SEPULVEDA BLV	RCRA-SQG, US AIRS	Higher	269, 0.051, South
C25	ARCO TERMINAL	2149 E SEPULVEDA AVE	SWEEPS UST, CA FID UST, EMI, HAZNET, LOS ANGELES...	Higher	269, 0.051, South
C26	ARCO CARSON PRODUCTS	2149 E SEPULVEDA BLV	AST	Higher	269, 0.051, South
D27	WATSON CARBON & CHEM	2021 EAST SEPULVEDA	ENVIROSTOR	Higher	595, 0.113, SSW
28	TEXACO	232000 S. ALAMEDA	Notify 65	Higher	600, 0.114, NNW
E29	TESORO REFINING & MA	23208 S ALAMEDA ST	AST, HIST UST, CHMIRS, EMI, HAZNET, HWP	Higher	684, 0.130, NNW
E30	EQUILON LA CARSON SU	23208 S ALAMEDA ST	HIST UST, EMI	Higher	684, 0.130, NNW
E31		23208 S ALAMEDA ST	AST	Higher	684, 0.130, NNW
E32	TESORO REFINING & MA	23208 S ALAMEDA ST	ENVIROSTOR, CHMIRS	Higher	684, 0.130, NNW
E33	TESORO REFINING & MA	23208 S. ALAMEDA STR	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, ICIS,	Higher	684, 0.130, NNW
D34	ARCO CREDIT UNION	1907 SEPULVEDA BLVD	LUST, HIST CORTESE	Higher	819, 0.155, SW
F35	CHEMOIL TANK FARM &	2365 SEPULVEDA	CPS-SLIC	Higher	874, 0.166, SE
F36	WATSON LAND CO. - BL	2222 SEPULVEDA	CPS-SLIC	Higher	875, 0.166, SE
F37	IMPORT DEALERS SERVI	2222 SEPULVEDA BLVD	LUST	Higher	875, 0.166, SE
F38	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	RCRA-LQG, ICIS, US AIRS	Higher	892, 0.169, SE

MAPPED SITES SUMMARY

Target Property Address:
S. ALAMEDA STREET
LONG BEACH, CA 90810

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F39	CHEMOIL TERMINAL - C	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F40	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F41	CHEMOIL TERMINAL (RF	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F42	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	TRIS, FUELS PROGRAM	Higher	892, 0.169, SE
F43	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F44	CHEMOIL TERMINALS CO	2365 E. SEPULVEDA BL	AST	Higher	892, 0.169, SE
F45	CHEMOIL CORPORATION	2365 EAST SEPULVEDA	FUELS PROGRAM	Higher	892, 0.169, SE
F46		2365 E SEPULVEDA BLV	AST	Higher	892, 0.169, SE
F47	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F48	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F49	CHEMOIL TERMINALS CO	2365 E SEPULVEDA BLV	CPS-SLIC, EMI, LOS ANGELES CO. HMS, NPDES, WDS,...	Higher	892, 0.169, SE
F50	CHEMOIL TERMINAL COR	2365 E SEPULVEDA BLV	FUELS PROGRAM	Higher	892, 0.169, SE
F51	SHELL OIL COMPANY	2375 SEPULVEDA BLVD	SWEEPS UST	Higher	995, 0.188, SE
52	ACTA SOUTH - PARCEL	S. ALAMEDA ST.	CPS-SLIC	Lower	1114, 0.211, NNW
53	HARGROVE	NE OF SEPULVEDA & AL	WMUDS/SWAT	Higher	1192, 0.226, WSW
G54	IMPORT DEALERS SERVI	2222 E SEPULVEDA	SWEEPS UST, CA FID UST	Higher	1218, 0.231, SSE
G55	IMPORT DEALER SERVIC	2222 E SEPULVEDA BLV	SWEEPS UST, LOS ANGELES CO. HMS, WDS	Higher	1218, 0.231, SSE
G56	PHILIP WEST INDUSTRI	2222 E SEPULVEDA BLV	RCRA NonGen / NLR, FINDS, ECHO	Higher	1218, 0.231, SSE
G57	IMPORT DEALERS SERVI	2222 E SEPULVEDA	HIST UST	Higher	1218, 0.231, SSE
G58	IMPORT DEALERS SERVI	2222 SEPULVEDA	HIST UST, HIST CORTESE	Higher	1218, 0.231, SSE
G59	WATSON LAND CO. - BL	2222 E. SEPULVEDA BL	CPS-SLIC	Higher	1218, 0.231, SSE
G60	PHILIP WEST INDUSTRI	2222 E SEPULVEDA	HWP	Higher	1218, 0.231, SSE
61	ACTA SOUTH - PARCEL	ALAMEDA ST	CPS-SLIC, CHMIRS	Higher	1334, 0.253, West
H62	WILMINGTON CLASS&YAR		UXO	Higher	1444, 0.273, NE
H63	WILMINGTON CLA & HOL		FUDS	Higher	1444, 0.273, NE
H64	WILMINGTON CLASS & H		ENVIROSTOR	Higher	1444, 0.273, NE
I65	KMEP CARSON TERMINAL	2000 E. SEPULVEDA BL	ENVIROSTOR, CPS-SLIC, CHMIRS, LA Co. Site...	Higher	1580, 0.299, SSW
I66	KINDER MORGAN LIQUID	2000 E SEPULVEDA BLV	CPS-SLIC, SWEEPS UST, HIST UST, CA FID UST,...	Higher	1580, 0.299, SSW
I67	GROUND WATER CLEANUP	2000 SEPULVEDA	Toxic Pits, CHMIRS, ENF, NPDES, CIWQS	Higher	1580, 0.299, SSW
I68	CARSON TERMINAL	2000 EAST SEPULVEDA	CPS-SLIC, ENF	Higher	1580, 0.299, SSW
69	ARCO REFINERY	1801 SEPULVEDA	CPS-SLIC	Higher	2084, 0.395, West
J70	COMMON MARKET CONTAI	22700 S ALAMEDA	ENVIROSTOR, EMI	Higher	2498, 0.473, North
J71	ALAMEDA ST SAN LDFL	22700 S ALAMEDA ST	SEMS	Higher	2498, 0.473, North
K72	L.A. ORDNANCE DEPOT		ENVIROSTOR	Higher	2718, 0.515, SSW
K73	LAGUNA DOM OIL SF PL		ENVIROSTOR	Higher	2727, 0.516, SSW
K74	MANUEL WAREHOUSE		ENVIROSTOR	Higher	2763, 0.523, SSW
L75	BP WEST COAST PRODUC	1801 E SEPULVEDA BLV	ENVIROSTOR	Higher	2881, 0.546, West
L76	TESORO CARSON REFINE	1801 E SEPULVEDA BLV	ICE, HWP	Higher	2881, 0.546, West
L77	TESORO LOS ANGELES R	1801 SEPULVEDA BLVD	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Higher	2881, 0.546, West

MAPPED SITES SUMMARY

Target Property Address:
 S. ALAMEDA STREET
 LONG BEACH, CA 90810

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
L78	ARCO PETROLEUM PRODU	1801 EAST SEPULVEDA	ENVIROSTOR, CHMIRS, CIWQS	Higher	2881, 0.546, West
M79	WILMINGTON REFINERY	1622 EAST SEPULVEDA	ENVIROSTOR	Higher	3390, 0.642, West
M80	SHELL OIL	1622 E. SEPULVEDA BL	Notify 65	Higher	3390, 0.642, West
M81	WILMINGTON COMPLEX	1622 EAST SEPULVEDA	Notify 65	Higher	3390, 0.642, West
82	MATLACK INC	22422 S ALAMEDA	ENVIROSTOR, SWEEPS UST	Higher	3942, 0.747, North
N83	SOLUTIA INC. CARSON	2100 EAST 223RD STRE	CORRACTS, RCRA-TSDF, RCRA-LQG, HWP	Higher	4292, 0.813, NNW
N84	MONSANTO CHEMICAL CO	2100 E 223RD ST	ENVIROSTOR, CPS-SLIC, HIST Cal-Sites, SWEEPS UST,...	Higher	4292, 0.813, NNW
N85	MONSANTO CHEMICAL CO	2100 EAST 223RD STRE	RESPONSE, ENVIROSTOR, Cortese, HIST CORTESE	Higher	4292, 0.813, NNW
86	COONS TRUST PROPERTY	2254 E. 223RD STREET	ENVIROSTOR, CPS-SLIC, VCP, DEED	Higher	4360, 0.826, NNW
O87	PHILLIPS 66 LOS ANGE	1520 E SEPULVEDA BLV	CORRACTS, RCRA-TSDF, RCRA-LQG, UST, SWEEPS UST, C	Higher	4437, 0.840, WSW
O88	LOS ANGELES REFINERY	1520 EAST SEPULVEDA	ENVIROSTOR, CPS-SLIC, CHMIRS, EMI, ENF, LOS...	Higher	4437, 0.840, WSW
O89	PHILLIPS 66 CO LOS A	1520 E SEPULVEDA BLV	DEED, HAZNET, ICE, HWP	Higher	4437, 0.840, WSW
P90	STAUFFER MANAGEMENT	2201_E_223RD ST OFF	RCRA-SQG, RESPONSE, ENVIROSTOR, LUST, CPS-SLIC,...	Higher	4439, 0.841, NNW
Q91	MANVILLE PLANT	2420 223RD ST E	RESPONSE, ENVIROSTOR, LUST, DEED, HIST CORTESE	Higher	4450, 0.843, North
Q92	MANVILLE CORPORATION	2420 EAST 223RD STRE	HIST Cal-Sites, CA BOND EXP. PLAN	Higher	4450, 0.843, North
P93	STAUFFER MANAGEMENT	2112 EAST 223RD STRE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG,...	Higher	4500, 0.852, NNW
94	VALERO WILMINGTON AS	1651 ALAMEDA ST	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG,...	Higher	4644, 0.880, SSW
R95	TESORO REFINING & MA	2101 E. PACIFIC COAS	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-LQG, US...	Lower	4713, 0.893, SSW
R96	TEXACO REFINING AND	2101 EAST PACIFIC CO	ENVIROSTOR, CPS-SLIC, HIST UST, DEED, CHMIRS, ICE,...	Lower	4713, 0.893, SSW
97	223RD ST./DOMINGUEZ		Notify 65	Higher	5200, 0.985, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
AIR PRODUCTS AND CHE 23300 S. ALAMEDA STR CARSON, CA 90810	RCRA-LQG EPA ID:: CAR000056135	CAR000056135
AIR PRODUCTS & CHEMI 23300 SOUTH ALAMEDA CARSON, CA 90810	FINDS Registry ID:: 110002305443 ECHO Registry ID: 110002305443	N/A
AIR PROD & CHEM INC 23320 S ALAMEDA ST LONG BEACH, CA 90810	SWEEPS UST Status: A Tank Status: A Comp Number: 3098 HIST UST Facility Id: 00000003098 EMI Facility Id: 3417	N/A
SOUTHERN CALIFORNIA 23320 S. ALAMEDA STR CARSON, CA 90810	ICIS FRS ID:: 110002305443 US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110002305443 FINDS Registry ID:: 110055751645	N/A
AIR PRODUCTS AND CHE 23320 S ALAMEDA ST LONG BEACH, CA 90810	HIST UST HAZNET GEPaid: CAT080010655	N/A
AIR PRODUCTS & CHEMI 23320 ALAMEDA ST S CARSON, CA 90810	LUST Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: I-05385 Status: Case Closed Global ID: T0603703068	N/A
AIR PRODUCTS & CHEMI 23320 ALAMEDA ST S CARSON, CA 90810	FINDS Registry ID:: 110065112087	N/A

EXECUTIVE SUMMARY

<p>AIR PRODUCTS & CHEMI 23320 ALAMEDA LONG BEACH, CA 90810</p>	<p>ENVIROSTOR Facility Id: 19281007 Status: Refer: RWQCB</p> <p>CPS-SLIC Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Completed - Case Closed Global Id: T0603703068</p> <p>HIST CORTESE Reg Id: I-05385 Reg Id: 19281007</p>	<p>N/A</p>
<p>AIR PRODUCTS AND CHE 23320 ALAMEDA CARSON, CA 90810</p>	<p>CPS-SLIC Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required</p>	<p>N/A</p>
<p>AIR PRODUCTS AND CHE 23300 SOUTH ALAMEDA CARSON, CA 90810</p>	<p>AST Database: AST, Date of Government Version: 07/06/2016</p>	<p>N/A</p>
<p>AIR PRODUCTS MFG COR 23320 S ALAMEDA ST CARSON, CA 90810</p>	<p>SWEEPS UST Status: A Tank Status: A Comp Number: 5385</p> <p>CA FID UST Facility Id: 19050949 Status: A</p> <p>LOS ANGELES CO. HMS Facility ID: 005186-005385 Facility ID: 005186-105385</p>	<p>N/A</p>
<p>AIR PRODUCTS, CARSON 23300 S. ALAMEDA ST. CARSON, CA 90810</p>	<p>TSCA RMP</p>	<p>N/A</p>
<p>AIR PRODUCTS & CHEMI 23300 S ALAMEDA ST CARSON, CA 90810</p>	<p>TRIS TRIS ID: 90810RPRDS23300</p>	<p>90810RPRDS23300</p>
<p>AIR PRODUCTS, CARSON 23000 S. ALAMEDA ST. CARSON, CA 90810</p>	<p>RMP</p>	<p>N/A</p>
<p>AIR PRODUCTS AND CHE 901 W 12TH ST LONG BEACH, CA 90813</p>	<p>HAZNET GEPAID: CAR000001537</p>	<p>N/A</p>

EXECUTIVE SUMMARY

AIR PRODUCTS & CHEMI 23320 ALAMEDA ST S CARSON, CA	RGA LUST	N/A
AIR PRODS & CHEMS IN 23320 S ALAMEDA ST LONG BEACH, CA 90810	SEMS-ARCHIVE Site ID: 0902667 EPA Id: CAT080010655 RCRA-SQG EPA ID:: CAT080010655	CAT080010655
AIR PRODUCTS & CHEMI 23320 ALAMEDA ST S CARSON, CA	RGA LUST	N/A

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-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Active UST Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN..... San Gabriel Valley Areas of Concern

US HIST CDL..... Delisted National Clandestine Laboratory Register

SCH..... School Property Evaluation Program

CDL..... Clandestine Drug Labs

US CDL..... National Clandestine Laboratory Register

CERS HAZ WASTE..... CERS HAZ WASTE

Local Lists of Registered Storage Tanks

CERS TANKS..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS..... Environmental Liens Listing

LIENS 2..... CERCLA Lien Information

DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

EXECUTIVE SUMMARY

CHMIRS..... California Hazardous Material Incident Report System
 LDS..... Land Disposal Sites Listing
 MCS..... Military Cleanup Sites Listing
 SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD..... Department of Defense Sites
 SCRDRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
 US FIN ASSUR..... Financial Assurance Information
 EPA WATCH LIST..... EPA WATCH LIST
 2020 COR ACTION..... 2020 Corrective Action Program List
 SSTS..... Section 7 Tracking Systems
 RAATS..... RCRA Administrative Action Tracking System
 PADS..... PCB Activity Database 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
 INDIAN RESERV..... Indian Reservations
 FUSRAP..... Formerly Utilized Sites Remedial Action Program
 UMTRA..... Uranium Mill Tailings Sites
 LEAD SMELTERS..... Lead Smelter Sites
 US MINES..... Mines Master Index File
 ABANDONED MINES..... Abandoned Mines
 DOCKET HWC..... Hazardous Waste Compliance Docket Listing
 Cortese..... "Cortese" Hazardous Waste & Substances Sites List
 CUPA Listings..... CUPA Resources List
 DRYCLEANERS..... Cleaner Facilities
 ENF..... Enforcement Action Listing
 Financial Assurance..... Financial Assurance Information Listing
 ICE..... ICE
 HWT..... Registered Hazardous Waste Transporter Database
 MINES..... Mines Site Location Listing
 MWMP..... Medical Waste Management Program Listing
 NPDES..... NPDES Permits Listing
 PEST LIC..... Pesticide Regulation Licenses Listing
 PROC..... Certified Processors Database
 LA Co. Site Mitigation..... Site Mitigation List
 UIC..... UIC Listing
 WASTEWATER PITS..... Oil Wastewater Pits Listing
 WDS..... Waste Discharge System
 WIP..... Well Investigation Program Case List
 NON-CASE INFO..... NON-CASE INFO (GEOTRACKER)
 OTHER OIL GAS..... OTHER OIL & GAS (GEOTRACKER)
 PROD WATER PONDS..... PROD WATER PONDS (GEOTRACKER)
 PROJECT..... PROJECT (GEOTRACKER)
 CERS..... CERS
 UIC GEO..... UIC GEO (GEOTRACKER)
 MILITARY PRIV SITES..... MILITARY PRIV SITES (GEOTRACKER)

EXECUTIVE SUMMARY

CIWQS..... California Integrated Water Quality System
WELL STIM PROJ..... Well Stimulation Project (GEOTRACKER)
SAMPLING POINT..... SAMPLING POINT (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List

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 07/17/2018 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MONTROSE CHEMICAL (M)</i> Cerclis ID: 900993 EPA Id: CAD008242711	<i>20201 SOUTH NORMANDI</i>	<i>ENE 0 - 1/8 (0.013 mi.)</i>	<i>0</i>	<i>85</i>

EXECUTIVE SUMMARY

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 known 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 07/17/2018 has revealed that there are 2 SEMS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M) Site ID: 0900993 EPA Id: CAD008242711	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85
ALAMEDA ST SAN LDFL Site ID: 0901806 EPA Id: CAD980636393	22700 S ALAMEDA ST	N 1/4 - 1/2 (0.473 mi.)	J71	409

Federal CERCLIS NFRAP site list

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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/17/2018 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA Site ID: 0900240 EPA Id: CAT000646331	23208 S. ALAMEDA STR	NNW 1/8 - 1/4 (0.130 mi.)	E33	188

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 03/01/2018 has revealed that there are 7

EXECUTIVE SUMMARY

CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA EPA ID:: CAT000646331	23208 S. ALAMEDA STR	NNW 1/8 - 1/4 (0.130 mi.)	E33	188
TESORO LOS ANGELES R EPA ID:: CAD077227049	1801 SEPULVEDA BLVD	W 1/2 - 1 (0.546 mi.)	L77	427
SOLUTIA INC. CARSON EPA ID:: CAD043555366	2100 EAST 223RD STRE	NNW 1/2 - 1 (0.813 mi.)	N83	500
PHILLIPS 66 LOS ANGE EPA ID:: CAD980881676	1520 E SEPULVEDA BLV	WSW 1/2 - 1 (0.840 mi.)	O87	567
STAUFFER MANAGEMENT EPA ID:: CAD076941103	2112 EAST 223RD STRE	NNW 1/2 - 1 (0.852 mi.)	P93	703
VALERO WILMINGTON AS EPA ID:: CAD981373053	1651 ALAMEDA ST	SSW 1/2 - 1 (0.880 mi.)	94	729
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA EPA ID:: CAD041520644	2101 E. PACIFIC COAS	SSW 1/2 - 1 (0.893 mi.)	R95	791

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 03/01/2018 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA EPA ID:: CAT000646331	23208 S. ALAMEDA STR	NNW 1/8 - 1/4 (0.130 mi.)	E33	188

Federal RCRA generators list

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.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/01/2018 has revealed that there are 3

EXECUTIVE SUMMARY

RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M) EPA ID:: CAD008242711	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85
TESORO REFINING & MA EPA ID:: CAT000646331	23208 S. ALAMEDA STR	NNW 1/8 - 1/4 (0.130 mi.)	E33	188
CHEMOIL TERMINALS CO EPA ID:: CAD097039028	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F38	232

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 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CARSON PRODUCTS TERM EPA ID:: CAD000632588	2149 E SEPULVEDA BLV	S 0 - 1/8 (0.051 mi.)	C24	148

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 02/13/2018 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M) EPA ID:: CAD008242711 EPA ID:: CAD008242711	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85

US INST CONTROL: 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 CONTROL list, as provided by EDR, and dated 02/13/2018 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M) EPA ID:: CAD008242711	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85

EXECUTIVE SUMMARY

State- and tribal - equivalent 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.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 3 RESPONSE sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONSANTO CHEMICAL CO Database: RESPONSE, Date of Government Version: 07/30/2018 Status: Active Facility Id: 19281200	2100 EAST 223RD STRE	NNW 1/2 - 1 (0.813 mi.)	N85	530
STAUFFER MANAGEMENT Database: RESPONSE, Date of Government Version: 07/30/2018 Status: Active Facility Id: 19280083	2201_E_223RD ST OFF	NNW 1/2 - 1 (0.841 mi.)	P90	657
MANVILLE PLANT Database: RESPONSE, Date of Government Version: 07/30/2018 Status: Certified O&M - Land Use Restrictions Only Facility Id: 19320001	2420 223RD ST E	N 1/2 - 1 (0.843 mi.)	Q91	691

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/30/2018 has revealed that there are 21 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WATSON CARBON & CHEM Facility Id: 19280751 Status: Refer: Other Agency	2021 EAST SEPULVEDA	SSW 0 - 1/8 (0.113 mi.)	D27	172
TESORO REFINING & MA Facility Id: 80001817 Status: Inactive - Action Required	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E32	186
WILMINGTON CLASS & H Facility Id: 80000531 Status: Inactive - Needs Evaluation		NE 1/4 - 1/2 (0.273 mi.)	H64	290
KMEP CARSON TERMINAL	2000 E. SEPULVEDA BL	SSW 1/4 - 1/2 (0.299 mi.)	I65	291

EXECUTIVE SUMMARY

Facility Id: 71002322				
Status: Refer: Other Agency				
COMMON MARKET CONTAI	22700 S ALAMEDA	N 1/4 - 1/2 (0.473 mi.)	J70	407
Facility Id: 60001198				
Status: Inactive - Action Required				
L.A. ORDNANCE DEPOT		SSW 1/2 - 1 (0.515 mi.)	K72	411
Facility Id: 80001029				
Status: Inactive - Needs Evaluation				
LAGUNA DOM OIL SF PL		SSW 1/2 - 1 (0.516 mi.)	K73	412
Facility Id: 80000184				
Status: Inactive - Needs Evaluation				
MANUEL WAREHOUSE		SSW 1/2 - 1 (0.523 mi.)	K74	413
Facility Id: 80001099				
Status: Inactive - Needs Evaluation				
BP WEST COAST PRODUC	1801 E SEPULVEDA BLV	W 1/2 - 1 (0.546 mi.)	L75	414
Facility Id: 80001685				
Status: Refer: RWQCB				
ARCO PETROLEUM PRODU	1801 EAST SEPULVEDA	W 1/2 - 1 (0.546 mi.)	L78	482
Facility Id: 19290015				
Status: Refer: RCRA				
WILMINGTON REFINERY	1622 EAST SEPULVEDA	W 1/2 - 1 (0.642 mi.)	M79	496
Facility Id: 19290284				
Status: Refer: Other Agency				
MATLACK INC	22422 S ALAMEDA	N 1/2 - 1 (0.747 mi.)	82	498
Facility Id: 71002109				
Status: Refer: Other Agency				
MONSANTO CHEMICAL CO	2100 E 223RD ST	NNW 1/2 - 1 (0.813 mi.)	N84	514
Facility Id: 80001380				
Status: * Inactive				
MONSANTO CHEMICAL CO	2100 EAST 223RD STRE	NNW 1/2 - 1 (0.813 mi.)	N85	530
Facility Id: 19281200				
Status: Active				
COONS TRUST PROPERTY	2254 E. 223RD STREET	NNW 1/2 - 1 (0.826 mi.)	86	561
Facility Id: 70000172				
Status: Certified O&M - Land Use Restrictions Only				
LOS ANGELES REFINERY	1520 EAST SEPULVEDA	WSW 1/2 - 1 (0.840 mi.)	O88	617
Facility Id: 80001752				
Status: Refer: RWQCB				
STAUFFER MANAGEMENT	2201_E_223RD ST OFF	NNW 1/2 - 1 (0.841 mi.)	P90	657
Facility Id: 19280083				
Status: Active				
MANVILLE PLANT	2420 223RD ST E	N 1/2 - 1 (0.843 mi.)	Q91	691
Facility Id: 19320001				
Status: Certified O&M - Land Use Restrictions Only				
STAUFFER MANAGEMENT	2112 EAST 223RD STRE	NNW 1/2 - 1 (0.852 mi.)	P93	703
Facility Id: 80001681				
Status: * Inactive				
VALERO WILMINGTON AS	1651 ALAMEDA ST	SSW 1/2 - 1 (0.880 mi.)	94	729
Facility Id: 80001767				

EXECUTIVE SUMMARY

Status: Active

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEXACO REFINING AND Facility Id: 19290032 Facility Id: 80001368 Status: Refer: RCRA Status: Refer: RWQCB	2101 EAST PACIFIC CO	SSW 1/2 - 1 (0.893 mi.)	R96	910

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO (CARSON TERMINA Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: R-13337 Status: Pollution Characterization Global ID: T0603705191	2149 SEPULVEDA	S 0 - 1/8 (0.034 mi.)	C20	144
ARCO CREDIT UNION Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 06/11/2018 Status: Completed - Case Closed Facility Id: I-15338 Status: Leak being confirmed Global Id: T0603704294 Global ID: T0603704294	1907 SEPULVEDA BLVD	SW 1/8 - 1/4 (0.155 mi.)	D34	226
IMPORT DEALERS SERVI Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 06/11/2018 Status: Completed - Case Closed Facility Id: I-06353 Status: Case Closed Global Id: T0603703199 Global ID: T0603703199	2222 SEPULVEDA BLVD	SE 1/8 - 1/4 (0.166 mi.)	F37	230

CPS-SLIC: 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.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there are 11 CPS-SLIC sites within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO - CARSON TERMINAL Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Inactive	2149 SEPULVEDA	S 0 - 1/8 (0.034 mi.)	C21	146
CHEMOIL TANK FARM & Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Site Assessment	2365 SEPULVEDA	SE 1/8 - 1/4 (0.166 mi.)	F35	229
WATSON LAND CO. - BL Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: No further action required	2222 SEPULVEDA	SE 1/8 - 1/4 (0.166 mi.)	F36	230
CHEMOIL TERMINALS CO Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Open - Site Assessment Global Id: SL374472460	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F49	253
WATSON LAND CO. - BL Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Completed - Case Closed Global Id: SLT43278276	2222 E. SEPULVEDA BL	SSE 1/8 - 1/4 (0.231 mi.)	G59	285
ACTA SOUTH - PARCEL Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Completed - Case Closed Global Id: SL0603779405	ALAMEDA ST	W 1/4 - 1/2 (0.253 mi.)	61	286
KMEP CARSON TERMINAL Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Open - Remediation Global Id: SLT43129127	2000 E. SEPULVEDA BL	SSW 1/4 - 1/2 (0.299 mi.)	I65	291
KINDER MORGAN LIQUID Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Open - Site Assessment Global Id: T10000007280	2000 E SEPULVEDA BLV	SSW 1/4 - 1/2 (0.299 mi.)	I66	303
CARSON TERMINAL Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Remediation	2000 EAST SEPULVEDA	SSW 1/4 - 1/2 (0.299 mi.)	I68	390
ARCO REFINERY Database: SLIC REG 4, Date of Government Version: 11/17/2004 Facility Status: Remediation	1801 SEPULVEDA	W 1/4 - 1/2 (0.395 mi.)	69	407
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ACTA SOUTH - PARCEL Database: CPS-SLIC, Date of Government Version: 06/11/2018 Facility Status: Completed - Case Closed Global Id: SL0603723245	S. ALAMEDA ST.	NNW 1/8 - 1/4 (0.211 mi.)	52	269

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 7 AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported Database: AST, Date of Government Version: 07/06/2016	23300 S ALAMEDA ST	NW 0 - 1/8 (0.013 mi.)	B19	144
Not reported Database: AST, Date of Government Version: 07/06/2016	2149 E SEPULVEDA BLV	S 0 - 1/8 (0.051 mi.)	C23	147
ARCO CARSON PRODUCTS Database: AST, Date of Government Version: 07/06/2016	2149 E SEPULVEDA BLV	S 0 - 1/8 (0.051 mi.)	C26	171
TESORO REFINING & MA Database: AST, Date of Government Version: 07/06/2016	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E29	173
Not reported Database: AST, Date of Government Version: 07/06/2016	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E31	185
CHEMOIL TERMINALS CO Database: AST, Date of Government Version: 07/06/2016	2365 E. SEPULVEDA BL	SE 1/8 - 1/4 (0.169 mi.)	F44	250
Not reported Database: AST, Date of Government Version: 07/06/2016	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F46	252

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there are 2 WMUDS/SWAT sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CARSON LIQUID HYDROG HARGROVE	23320 SOUTH ALAMEDA NE OF SEPULVEDA & AL	NW 0 - 1/8 (0.043 mi.) WSW 1/8 - 1/4 (0.226 mi.)	B22 53	146 269

Local Lists of Hazardous waste / Contaminated Sites

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 HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 3 HIST Cal-Sites sites within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONSANTO CHEMICAL CO	2100 E 223RD ST	NNW 1/2 - 1 (0.813 mi.)	N84	514
MANVILLE CORPORATION	2420 EAST 223RD STRE	N 1/2 - 1 (0.843 mi.)	Q92	697
STAUFFER MANAGEMENT	2112 EAST 223RD STRE	NNW 1/2 - 1 (0.852 mi.)	P93	703

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 Toxic Pits list, as provided by EDR, and dated 07/01/1995 has revealed that there is 1 Toxic Pits site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GROUND WATER CLEANUP Closure Date: 08/01/91 Task #: 84021 Status: CLOSED	2000 SEPULVEDA	SSW 1/4 - 1/2 (0.299 mi.)	I67	318

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO TERMINAL Status: A Tank Status: A Comp Number: 13337	2149 E SEPULVEDA AVE	S 0 - 1/8 (0.051 mi.)	C25	163
SHELL OIL COMPANY Status: A Comp Number: 12825	2375 SEPULVEDA BLVD	SE 1/8 - 1/4 (0.188 mi.)	F51	268
IMPORT DEALERS SERVI Status: A Tank Status: A Comp Number: 41147	2222 E SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G54	270
IMPORT DEALER SERVIC Status: A Tank Status: A Comp Number: 6353	2222 E SEPULVEDA BLV	SSE 1/8 - 1/4 (0.231 mi.)	G55	274

EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 4 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA Facility Id: 00000066990	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E29	173
EQUILON LA CARSON SU	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E30	183
IMPORT DEALERS SERVI	2222 E SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G57	282
IMPORT DEALERS SERVI Facility Id: 00000041147	2222 SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G58	282

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO TERMINAL Facility Id: 19002056 Status: A	2149 E SEPULVEDA AVE	S 0 - 1/8 (0.051 mi.)	C25	163
IMPORT DEALERS SERVI Facility Id: 19002142 Status: A	2222 E SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G54	270

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 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PHILIP WEST INDUSTRI EPA ID:: CAD981685886	2222 E SEPULVEDA BLV	SSE 1/8 - 1/4 (0.231 mi.)	G56	279

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 01/31/2015 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WILMINGTON CLA & HOL Federal Facility ID:: CA9799F5690 INST ID:: 61234		NE 1/4 - 1/2 (0.273 mi.)	H63	288

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 05/13/2018 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M) EPA ID:: CAD008242711	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 03/31/2018 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MONTROSE CHEMICAL (M)	20201 SOUTH NORMANDI	ENE 0 - 1/8 (0.013 mi.)	0	85

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 09/30/2016 has revealed that there is 1 UXO site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WILMINGTON CLASS&YAR		NE 1/4 - 1/2 (0.273 mi.)	H62	288

FUELS PROGRAM: 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.

A review of the FUELS PROGRAM list, as provided by EDR, and dated 05/21/2018 has revealed that there are 9 FUELS PROGRAM sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CHEMOIL TERMINAL - C Company Seq ID: 3325 Facility ID: 81504, 81504, 81504, 81504	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F39	248
CHEMOIL TERMINALS CO Company Seq ID: 5867 Facility ID: 20159	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F40	248
CHEMOIL TERMINAL (RF)	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F41	249

EXECUTIVE SUMMARY

Company Seq ID: 3052
Facility ID: 07775

CHEMOIL TERMINALS CO Company Seq ID: 3325 Facility ID: 80005, 80005, 80005	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F42	249
CHEMOIL TERMINALS CO Company Seq ID: 5867 Facility ID: 81504, 81504, 81504	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F43	250
CHEMOIL CORPORATION Company Seq ID: 4528 Facility ID: 09096	2365 EAST SEPULVEDA	SE 1/8 - 1/4 (0.169 mi.)	F45	251
CHEMOIL TERMINALS CO Company Seq ID: 5867 Company Seq ID: 6434 Facility ID: 07775	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F47	252
CHEMOIL TERMINALS CO Company Seq ID: 5867 Facility ID: 11530	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F48	253
CHEMOIL TERMINAL COR Company Seq ID: 5867 Company Seq ID: 3052 Facility ID: 81504, 81504, 81504, 81504, 81504 Facility ID: 81504	2365 E SEPULVEDA BLV	SE 1/8 - 1/4 (0.169 mi.)	F50	268

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MANVILLE CORPORATION	2420 EAST 223RD STRE	N 1/2 - 1 (0.843 mi.)	Q92	697

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 3 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO (CARSON TERMINA) Reg Id: R-13337	2149 SEPULVEDA	S 0 - 1/8 (0.034 mi.)	C20	144
ARCO CREDIT UNION Reg Id: I-15338	1907 SEPULVEDA BLVD	SW 1/8 - 1/4 (0.155 mi.)	D34	226
IMPORT DEALERS SERVI Reg Id: I-06353	2222 SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G58	282

EXECUTIVE SUMMARY

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/20/2018 has revealed that there are 9 HWP sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA EPA Id: CAT000646331 Cleanup Status: CLOSED	23208 S ALAMEDA ST	NNW 1/8 - 1/4 (0.130 mi.)	E29	173
PHILIP WEST INDUSTRI EPA Id: CAD981685886 Cleanup Status: CLOSED	2222 E SEPULVEDA	SSE 1/8 - 1/4 (0.231 mi.)	G60	285
KINDER MORGAN LIQUID EPA Id: CAD010715837 Cleanup Status: CLOSED	2000 E SEPULVEDA BLV	SSW 1/4 - 1/2 (0.299 mi.)	I66	303
TESORO CARSON REFIN EPA Id: CAD077227049 Cleanup Status: POST CLOSURE PERMIT	1801 E SEPULVEDA BLV	W 1/2 - 1 (0.546 mi.)	L76	416
SOLUTIA INC. CARSON EPA Id: CAD043555366 Cleanup Status: CLOSED	2100 EAST 223RD STRE	NNW 1/2 - 1 (0.813 mi.)	N83	500
PHILLIPS 66 CO LOS A EPA Id: CAD980881676 Cleanup Status: POST CLOSURE PERMIT	1520 E SEPULVEDA BLV	WSW 1/2 - 1 (0.840 mi.)	O89	645
STAUFFER MANAGEMENT EPA Id: CAD076941103 Cleanup Status: UNDERGOING CLOSURE	2112 EAST 223RD STRE	NNW 1/2 - 1 (0.852 mi.)	P93	703
VALERO WILMINGTON AS EPA Id: CAD981373053 Cleanup Status: CLOSED	1651 ALAMEDA ST	SSW 1/2 - 1 (0.880 mi.)	94	729

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TESORO REFINING & MA EPA Id: CAD041520644 Cleanup Status: POST CLOSURE PERMIT	2101 E. PACIFIC COAS	SSW 1/2 - 1 (0.893 mi.)	R95	791

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 06/18/2018 has revealed that there are 4 Notify 65 sites within approximately 1 mile of the target property.

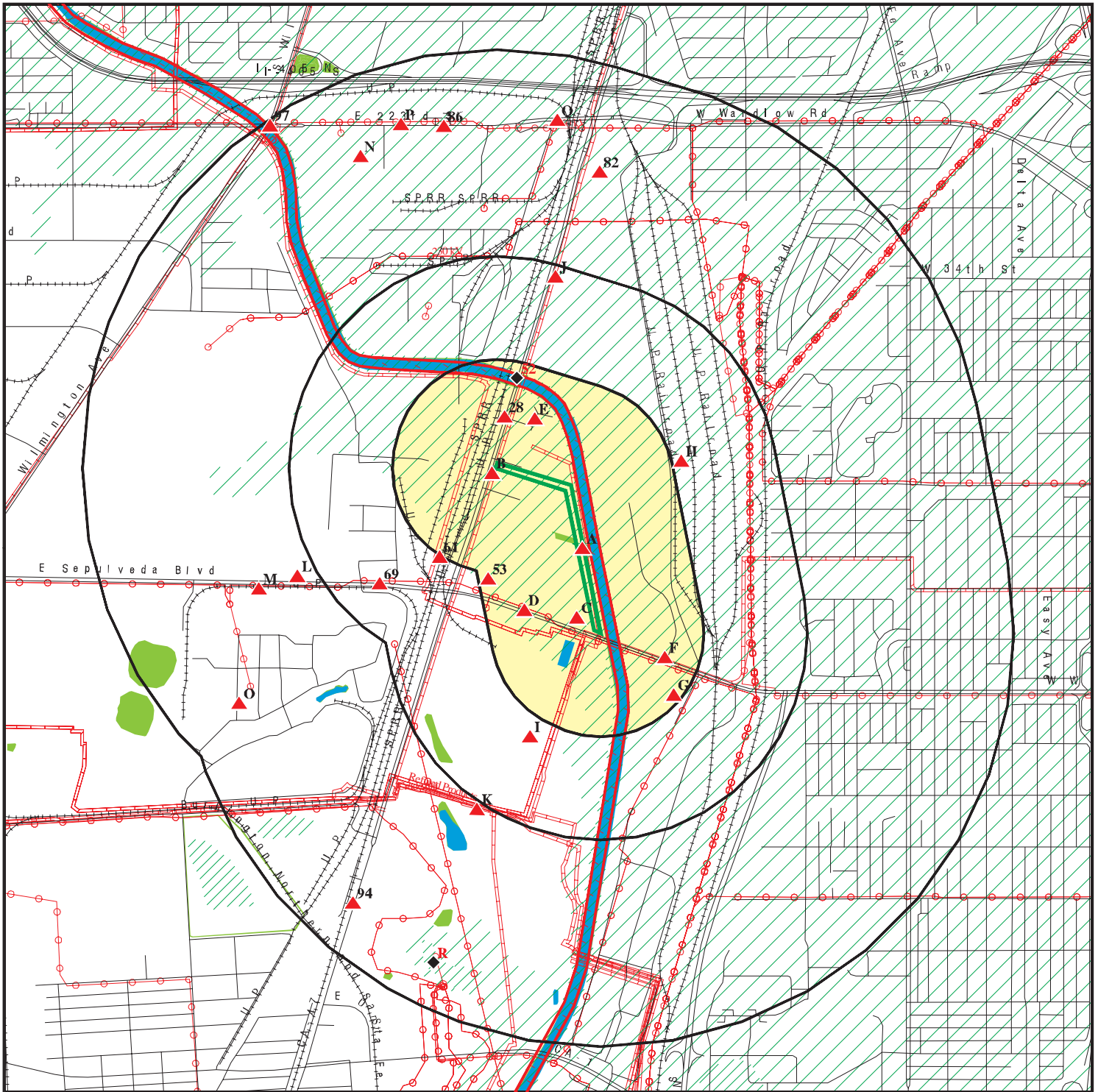
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TEXACO	232000 S. ALAMEDA	NNW 0 - 1/8 (0.114 mi.)	28	173
SHELL OIL	1622 E. SEPULVEDA BL	W 1/2 - 1 (0.642 mi.)	M80	497
WILMINGTON COMPLEX	1622 EAST SEPULVEDA	W 1/2 - 1 (0.642 mi.)	M81	497
223RD ST./DOMINGUEZ		NW 1/2 - 1 (0.985 mi.)	97	941
















EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 14 records.

<u>Site Name</u>	<u>Database(s)</u>
GATX TERMIMALS CORP	LUST, HIST CORTESE
TED HAMMETT	SEMS-ARCHIVE
SHELL OIL CO WILMINGTON REF	SEMS-ARCHIVE
S. C. EVANS	SWF/LF
GARDENA VALLEY #1 & #2	SWF/LF
ACTA SOUTH - PARCEL SE-351	CPS-SLIC
ACTA SOUTH - PARCEL SE-352/353	CPS-SLIC
ACTA SOUTH - PARCEL SE-349	CPS-SLIC
ACTA SOUTH - PARCEL SE-362	CPS-SLIC
ACTA SOUTH - PARCEL SE-358	CPS-SLIC
SOUTHERN CALIFORNIA GAS COMPANY	CPS-SLIC
ORYX ENERGY CO.	CPS-SLIC
ACTA SOUTH - PARCEL SE-372	CPS-SLIC
TED HAMMETT (CARSON)	ENVIROSTOR

OVERVIEW MAP - 5419663.2S



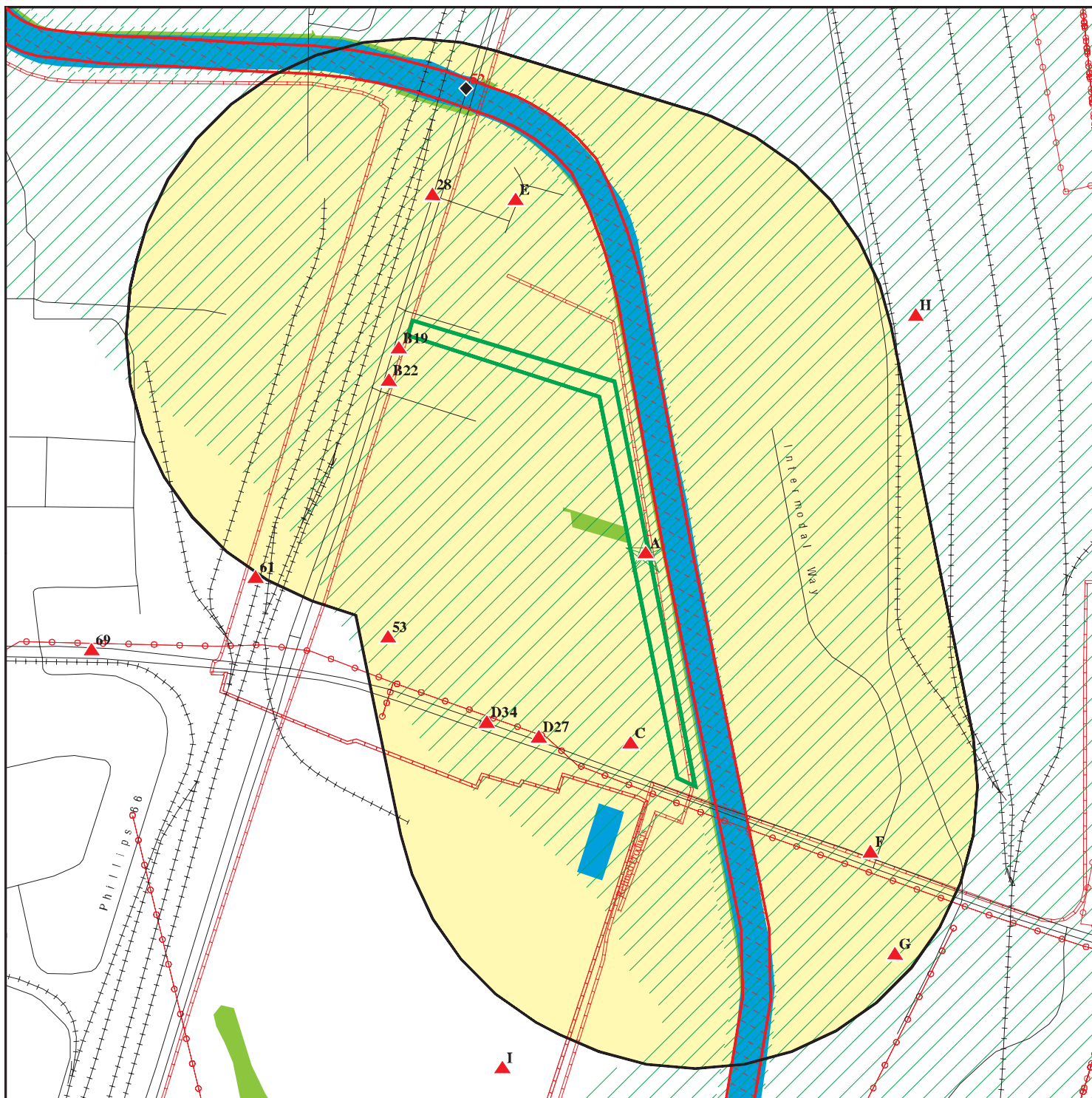
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Pipelines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands
-  Upgradient Area
-  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: Air Products
 ADDRESS: S. Alameda Street
 Long Beach CA 90810
 LAT/LONG: 33.809444 / 118.229167

CLIENT: Padre Associates, Inc
 CONTACT: Eric Snelling
 INQUIRY #: 5419663.2s
 DATE: September 11, 2018 4:50 pm

DETAIL MAP - 5419663.2S



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

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

0 1/16 1/8 1/4 Miles

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: Air Products
 ADDRESS: S. Alameda Street
 Long Beach CA 90810
 LAT/LONG: 33.809444 / 118.229167

CLIENT: Padre Associates, Inc
 CONTACT: Eric Snelling
 INQUIRY #: 5419663.2s
 DATE: September 11, 2018 4:54 pm

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								
<i>Federal NPL site list</i>								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	1	NR	NR	2
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500	1	0	1	0	NR	NR	2
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	1	0	6	NR	7
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	1	0	NR	NR	1
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250	1	1	2	NR	NR	NR	4
RCRA-SQG	0.250	1	1	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		1	0	0	NR	NR	1
<i>Federal ERNS list</i>								
ERNS	0.001		0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	3	NR	3
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000	1	1	1	3	16	NR	22
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500	1	1	2	0	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500	2	1	5	5	NR	NR	13
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250	1	3	4	NR	NR	NR	8
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		1	1	0	NR	NR	2
SWRCY	0.500		0	0	0	NR	NR	0
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								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	3	NR	3
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	1	0	NR	1
US CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	2	1	3	NR	NR	NR	6
HIST UST	0.250	2	0	4	NR	NR	NR	6
CA FID UST	0.250	1	1	1	NR	NR	NR	3
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
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
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		0	0	1	0	NR	1
DOD	1.000		0	0	0	0	NR	0
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	1	0	NR	NR	NR	NR	1
TRIS	0.001	1	0	NR	NR	NR	NR	1
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001	2	0	NR	NR	NR	NR	2
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		1	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	1	NR	NR	NR	NR	2
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		1	0	0	0	NR	1
INDIAN RESERV	0.001		0	NR	NR	NR	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	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	3	0	NR	NR	NR	NR	3
UXO	1.000		0	0	1	0	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	9	NR	NR	NR	9
CA BOND EXP. PLAN	1.000		0	0	0	1	NR	1
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

AIR PRODUCTS AND CHEMICALS, INC.
23300 S. ALAMEDA STREET
CARSON, CA 90810

RCRA-LQG 1001492874
CAR000056135

Site 1 of 18 in cluster A

Actual:
19 ft.

RCRA-LQG:
Date form received by agency: 03/07/2012
Facility name: AIR PRODUCTS AND CHEMICALS, INC.
Facility address: 23300 S. ALAMEDA STREET
CARSON, CA 90810
EPA ID: CAR000056135
Mailing address: S. ALAMEDA STREET
CARSON, CA 90810
Contact: JIM C REEBEL
Contact address: S. ALAMEDA STREET
CARSON, CA 90810
Contact country: US
Contact telephone: 310-847-7300
Telephone ext.: 13
Contact email: REEBELJC@AIRPRODUCTS.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: AIR PRODUCTS AND CHEMICALS INC
Owner/operator address: 7201 HAMILTON BLVD
ALLENTOWN, PA 18195
Owner/operator country: Not reported
Owner/operator telephone: 610-481-3354
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: AIR PRODUCTS AND CHEMICALS, INC.
Owner/operator address: HAMILTON BOULEVARD
ALLENTOWN, PA 18195
Owner/operator country: Not reported
Owner/operator telephone: 610-481-4911
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS AND CHEMICALS, INC. (Continued)

1001492874

Owner/Operator Type: Owner
Owner/Op start date: 11/01/1999
Owner/Op end date: Not reported

Owner/operator name: AIR PRODUCTS AND CHEMICALS, INC.
Owner/operator address: HAMILTON BOULEVARD
ALLENTOWN, PA 18195

Owner/operator country: US
Owner/operator telephone: 610-481-4911
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: 11/01/1999
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

. Waste code: D008
. Waste name: LEAD

Historical Generators:

Date form received by agency: 09/01/1999
Site name: AIR PRODUCTS AND CHEMICALS INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

Map ID
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AIR PRODUCTS AND CHEMICALS, INC. (Continued)

1001492874

USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

**A2
Target
Property**

**AIR PRODUCTS & CHEMICALS INCORPORATED
23300 SOUTH ALAMEDA STREET
CARSON, CA 90810**

**FINDS 1016070442
ECHO N/A**

Site 2 of 18 in cluster A

**Actual:
19 ft.**

FINDS:

Registry ID: 110002305443

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

TSCA SUBMITTER

AIR EMISSIONS CLASSIFICATION UNKNOWN

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.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

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.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS & CHEMICALS INCORPORATED (Continued)

1016070442

STATE MASTER

AIR MAJOR

HAZARDOUS WASTE BIENNIAL REPORTER

GREENHOUSE GAS REPORTER

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016070442
 Registry ID: 110002305443
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110002305443>

**A3
 Target
 Property**

**AIR PROD & CHEM INC
 23320 S ALAMEDA ST
 LONG BEACH, CA 90810**

**SWEEPS UST
 HIST UST
 EMI**

**U001566212
 N/A**

Site 3 of 18 in cluster A

**Actual:
 19 ft.**

SWEEPS UST:

Status: Active
 Comp Number: 3098
 Number: 9
 Board Of Equalization: 44-010982
 Referral Date: 07-01-85
 Action Date: Not reported
 Created Date: 02-29-88
 Owner Tank Id: 28 91
 SWRCB Tank Id: 19-060-003098-000001
 Tank Status: A
 Capacity: 500
 Active Date: 07-01-85
 Tank Use: M.V. FUEL
 STG: P
 Content: DIESEL
 Number Of Tanks: 5

Status: Active
 Comp Number: 3098
 Number: 9
 Board Of Equalization: 44-010982
 Referral Date: 07-01-85
 Action Date: Not reported
 Created Date: 02-29-88
 Owner Tank Id: 28 7
 SWRCB Tank Id: 19-060-003098-000002
 Tank Status: A
 Capacity: 6000

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PROD & CHEM INC (Continued)

U001566212

Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3098
Number: 9
Board Of Equalization: 44-010982
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 28 5
SWRCB Tank Id: 19-060-003098-000003
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 3098
Number: 9
Board Of Equalization: 44-010982
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: LB-IGD-1
SWRCB Tank Id: 19-060-003098-000004
Tank Status: A
Capacity: 3000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 3098
Number: 9
Board Of Equalization: 44-010982
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: LB-IGD-2
SWRCB Tank Id: 19-060-003098-000005
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Map ID
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Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PROD & CHEM INC (Continued)

U001566212

HIST UST:

File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 0000003098
Facility Type: Other
Other Type: INDUSTRIAL GASES
Contact Name: MR. RONALD G. SHADMAN
Telephone: 2138305231
Owner Name: AIR PRODUCTS AND CHEMICALS, IN
Owner Address: BOX 538
Owner City,St,Zip: ALLENTOWN, PA 18105
Total Tanks: 0005

Tank Num: 001
Container Num: 28 91
Year Installed: 1962
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 3/16
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 28 7
Year Installed: 1962
Tank Capacity: 00006000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 5/16
Leak Detection: None

Tank Num: 003
Container Num: 28 5
Year Installed: 1962
Tank Capacity: 00002000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 3/16
Leak Detection: None

Tank Num: 004
Container Num: LB-IGD-1
Year Installed: 1974
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 005
Container Num: LB-IGD-2
Year Installed: 1974
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PROD & CHEM INC (Continued)

U001566212

Leak Detection: Stock Inventor, 10

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 3417
Air District Name: SC
SIC Code: 3823
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

**A4
Target
Property**

**SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION
23320 S. ALAMEDA STREET
CARSON, CA 90810**

**ICIS 1000128759
US AIRS N/A
FINDS**

Site 4 of 18 in cluster A

**Actual:
19 ft.**

ICIS:
Enforcement Action ID: CASCAA000006037CJ65600068
FRS ID: 110002305443
Action Name: AIR PROD & CHEM INC 06037CJ65600068
Facility Name: AIR PROD & CHEM INC
Facility Address: 23300 S ALAMEDA AVE
CARSON, CA 90810
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3823
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.812778
Longitude in Decimal Degrees: -118.231389
Permit Type Desc: Not reported
Program System Acronym: CASCA000006037CJ656
Facility NAICS Code: 334513
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037CJ65600067
FRS ID: 110002305443
Action Name: AIR PROD & CHEM INC 06037CJ65600067
Facility Name: AIR PROD & CHEM INC
Facility Address: 23300 S ALAMEDA AVE
CARSON, CA 90810
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

EA Type Code: NOV
Facility SIC Code: 3823
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.812778
Longitude in Decimal Degrees: -118.231389
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037CJ656
Facility NAICS Code: 334513
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037CJ65600004
FRS ID: 110002305443
Action Name: AIR PROD & CHEM INC 06037CJ65600004
Facility Name: AIR PROD & CHEM INC
Facility Address: 23300 S ALAMEDA AVE
CARSON, CA 90810

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3823
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.812778
Longitude in Decimal Degrees: -118.231389
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037CJ656
Facility NAICS Code: 334513
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037CJ65600003
FRS ID: 110002305443
Action Name: AIR PROD & CHEM INC 06037CJ65600003
Facility Name: AIR PROD & CHEM INC
Facility Address: 23300 S ALAMEDA AVE
CARSON, CA 90810

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3823
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.812778
Longitude in Decimal Degrees: -118.231389
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037CJ656
Facility NAICS Code: 334513
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000128759
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

D and B Number: Not reported
Facility Site Name: AIR PROD & CHEM INC
Primary SIC Code: 3823
NAICS Code: 334513
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2005-03-21 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2014-05-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-07-07 00:00:00
Activity Status Date: 2015-10-16 19:39:55
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-07-07 00:00:00
Activity Status Date: 2015-10-16 19:42:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

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EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-12-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-12-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-12-18 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-02-27 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-10-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Date: 2009-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-12-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-12-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-06-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-12-18 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2013-02-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2013-09-03 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2013-09-05 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Date:	2013-12-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-02-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-08-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-08-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-09-03 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA00006037CJ656
Facility Registry ID:	110002305443

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-05 00:00:00
Activity Status Date: 2004-10-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-09-26 00:00:00
Activity Status Date: 2013-09-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-12-20 00:00:00
Activity Status Date: 2002-12-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-24 00:00:00
Activity Status Date: 2013-01-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-03-21 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2014-05-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-27 00:00:00
Activity Status Date: 2015-10-16 19:41:13
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-07-07 00:00:00
Activity Status Date: 2015-10-16 19:39:55
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-07-07 00:00:00
Activity Status Date: 2015-10-16 19:42:15
Activity Group: Compliance Monitoring

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-26 00:00:00
Activity Status Date: 2016-05-11 20:15:25
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Map ID
Direction
Distance
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Date: 2007-12-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-12-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-12-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-12-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-12-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Map ID
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Database(s)

EDR ID Number
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SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Date: 2012-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-06-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-05 00:00:00
Activity Status Date: 2004-10-05 00:00:00
Activity Group: Enforcement Action

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHERN CALIFORNIA EDISON AIR PRODUCTS SUBSTATION (Continued)

1000128759

Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-26 00:00:00
Activity Status Date: 2013-09-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-20 00:00:00
Activity Status Date: 2002-12-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ656
Facility Registry ID: 110002305443
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-24 00:00:00
Activity Status Date: 2013-01-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

FINDS:

Registry ID: 110055751645

Environmental Interest/Information System
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A5 **AIR PRODUCTS AND CHEMICALS INC**
Target **23320 S ALAMEDA ST**
Property **LONG BEACH, CA 90810**

HIST UST **S113179490**
HAZNET **N/A**

Site 5 of 18 in cluster A

Actual:
19 ft.

HIST UST:
File Number: 000261F0
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000261F0.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:

HAZNET:
envid: S113179490
Year: 1999
GEPaid: CAT080010655
Contact: AIR PRODUCTS AND CHEMICALS INC
Telephone: 6104818867
Mailing Name: Not reported
Mailing Address: GEG ENV 7201 HAMILTON BLVD
Mailing City,St,Zip: ALLENTOWN, PA 181951921
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Recycler
Tons: .7365
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113179490
Year: 1999
GEPaid: CAT080010655
Contact: AIR PRODUCTS AND CHEMICALS INC
Telephone: 6104818867
Mailing Name: Not reported
Mailing Address: GEG ENV 7201 HAMILTON BLVD
Mailing City,St,Zip: ALLENTOWN, PA 181951921
Gen County: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS AND CHEMICALS INC (Continued)

S113179490

TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: .4000
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113179490
Year: 1999
GEPaid: CAT080010655
Contact: AIR PRODUCTS AND CHEMICALS INC
Telephone: 6104818867
Mailing Name: Not reported
Mailing Address: GEG ENV 7201 HAMILTON BLVD
Mailing City,St,Zip: ALLENTOWN, PA 181951921
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Not reported
Tons: .8140
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113179490
Year: 1999
GEPaid: CAT080010655
Contact: AIR PRODUCTS AND CHEMICALS INC
Telephone: 6104818867
Mailing Name: Not reported
Mailing Address: GEG ENV 7201 HAMILTON BLVD
Mailing City,St,Zip: ALLENTOWN, PA 181951921
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: .5500
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113179490
Year: 1999
GEPaid: CAT080010655
Contact: AIR PRODUCTS AND CHEMICALS INC
Telephone: 6104818867
Mailing Name: Not reported
Mailing Address: GEG ENV 7201 HAMILTON BLVD
Mailing City,St,Zip: ALLENTOWN, PA 181951921
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other organic solids

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS AND CHEMICALS INC (Continued)

S113179490

Disposal Method: Disposal, Land Fill
 Tons: 15.1704
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access
 20 additional CA_HAZNET: record(s) in the EDR Site Report.

**A6
 Target
 Property**

**AIR PRODUCTS & CHEMICALS, INC.
 23320 ALAMEDA ST S
 CARSON, CA 90810**

**LUST S105032589
 N/A**

Site 6 of 18 in cluster A

**Actual:
 19 ft.**

LUST REG 4:
 Region: 4
 Regional Board: 04
 County: Los Angeles
 Facility Id: I-05385
 Status: Case Closed
 Substance: Hydrocarbons
 Substance Quantity: Not reported
 Local Case No: Not reported
 Case Type: Soil
 Abatement Method Used at the Site: Not reported
 Global ID: T0603703068
 W Global ID: Not reported
 Staff: SLC
 Local Agency: 19000
 Cross Street: SEPULVEDA
 Enforcement Type: Not reported
 Date Leak Discovered: Not reported
 Date Leak First Reported: 11/10/1993
 Date Leak Record Entered: 5/31/1995
 Date Confirmation Began: 11/10/1993
 Date Leak Stopped: Not reported
 Date Case Last Changed on Database: 9/21/1995
 Date the Case was Closed: 9/25/1997
 How Leak Discovered: Not reported
 How Leak Stopped: Not reported
 Cause of Leak: UNK
 Leak Source: Tank
 Operator: Not reported
 Water System: Not reported
 Well Name: Not reported
 Approx. Dist To Production Well (ft): 4831.2527072615269373755120702
 Source of Cleanup Funding: Tank
 Preliminary Site Assessment Workplan Submitted: Not reported
 Preliminary Site Assessment Began: Not reported
 Pollution Characterization Began: Not reported
 Remediation Plan Submitted: Not reported
 Remedial Action Underway: Not reported
 Post Remedial Action Monitoring Began: Not reported
 Enforcement Action Date: Not reported
 Historical Max MTBE Date: Not reported
 Hist Max MTBE Conc in Groundwater: Not reported
 Hist Max MTBE Conc in Soil: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS & CHEMICALS, INC. (Continued)

S105032589

Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: AIR PRODUCTUS & CHEMICALS
RP Address: PO BOX 538 ALLENTOWN PA 18105
Program: SLIC
Lat/Long: 33.8131635 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: REFER TO SLIC #336

**A7
Target
Property**

**AIR PRODUCTS & CHEMICALSNA INC.
23320 ALAMEDA ST S
CARSON, CA 90810**

**FINDS 1023224641
N/A**

Site 7 of 18 in cluster A

**Actual:
19 ft.**

FINDS:

Registry ID: 110065112087

Environmental Interest/Information System
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**A8
Target
Property**

**AIR PRODUCTS & CHEMICALS
23320 ALAMEDA
LONG BEACH, CA 90810**

**ENVIROSTOR S105024519
CPS-SLIC N/A
HIST CORTESE**

Site 8 of 18 in cluster A

**Actual:
19 ft.**

ENVIROSTOR:

Facility ID: 19281007
Status: Refer: RWQCB
Status Date: 06/15/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS & CHEMICALS (Continued)

S105024519

Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.81222
Longitude: -118.2330
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HYDROCARBON SOLVENTS * Laboratory Waste Chemicals * WASTE OIL & MIXED OIL
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ARCO REFINERY
Alias Type: Alternate Name
Alias Name: CAT080010655
Alias Type: EPA Identification Number
Alias Name: 19281007
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/14/1992
Comments: SSI Report reviewed by Region 4 staff. The site is bounded by: Alameda St. to the west, Sepulveda Blvd. to the south, and the Dominguez Channel to the north and east. There are three separate entities operating at the site: Texaco Ref. & Marketing, Air Products & Chemicals, and Atlantic Rich- field Co. (ARCO). In addition, the LA Co. Flood Control District (LACFCD) uses a portion in the SE corner as an equipment yard for the Dominguez Gap Saltwater Barrier Project. The Texaco Sulfur Recovery Plant is in the RCRA data base (EPA id# CAT000646331). Air Products & Chem. is also (EPA ID# CAT080010655). ARCO as well (EPA ID# CAD077227049) The RWQCB is overseeing GW contam. problems in the Carson area associated with past practices of refineries, but is not currently involved with this site. Recommend referral to RWQCB. Alameda Street Landfill is on the NE side of the Dom- inguez Channel from this site (Calsites # 19490218).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/19/1989
Comments: SITE SCREENING DONE E&E CONDUCTED A REASSESSMENT OF THE PA ON 12/20/88; RECOMMEND MEDIUM PRIORITY SSI; DHS CONCURS WITH RECOMMENDATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1985
Comments: SOURCE ACT: LACE IW PERMIT 3/5/63 - CRYOGENIC GAS PROCESSING WASTE TYPE: LACH INSP REP 5/20/83 - COOLING WATER TO DOMINGUEZ CHANNEL, STODDARD SOLVENT - CLOSED SYSTEM 110 GAL/YR; SODIUM CARBONATE - 40 GAL/ MIN IN WASTEWATER TO CHANNEL & CAUSTIC STRIPPER - UNDERGROUND TANK 1050 GAL/M YEARS OPERATION: 1962 TO PRESENT DISPOSAL OF LAB WASTES INTO SEPTIC SYS- TEM; IN EARLIER INSPECTION: REPORTED WASTES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS & CHEMICALS (Continued)

S105024519

DUMPED ON GROUND BY CHANNEL MENTIONED SUBMIT TO EPA PRELIM ASSESS
DONE CERCLA 104

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/19/1982
Comments: FACILITY IDENTIFIED IDENTIFIED THROUGH TIP

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

CPS-SLIC:

Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 09/25/1997
Global Id: T0603703068
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.8124715
Longitude: -118.232838
Case Type: Cleanup Program Site
Case Worker: SLC
Local Agency: LOS ANGELES COUNTY
RB Case Number: 0336
File Location: Not reported
Potential Media Affected: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-05385

Region: CORTESE
Facility County Code: 19
Reg By: CALSI
Reg Id: 19281007

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

A9 **AIR PRODUCTS AND CHEMICALS, INC.**
Target **23320 ALAMEDA**
Property **CARSON, CA 90810**

CPS-SLIC **S106386996**
 N/A

Site 9 of 18 in cluster A

Actual: SLIC REG 4:
19 ft. Region: 4
 Facility Status: No further action required
 SLIC: 0336
 Substance: TPH/V
 Staff: Not reported

A10 **AIR PRODUCTS AND CHEMICALS, INC. - CARSON**
Target **23300 SOUTH ALAMEDA STREET**
Property **CARSON, CA 90810**

AST **A100416966**
 N/A

Site 10 of 18 in cluster A

Actual: AST:
19 ft. Certified Unified Program Agencies: Not reported
 Owner: Air Products & Chemicals, Inc.
 Total Gallons: Not reported
 CERSID: 10155423
 Facility ID: LACoFA0002211
 Business Name: Air Products and Chemicals, Inc.
 Phone: 310-847-7300
 Fax: 310-847-7311
 Mailing Address: 23300 South Alameda Street
 Mailing Address City: Carson
 Mailing Address State: CA
 Mailing Address Zip Code: 90810
 Operator Name: Air Products & Chemicals, Inc.
 Operator Phone: 310-847-7300 x7
 Owner Phone: 610-481-4911
 Owner Mail Address: 7201 Hamilton Boulevard
 Owner State: PA
 Owner Zip Code: 18195
 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: CAR000056135

A11 **AIR PRODUCTS MFG CORP**
Target **23320 S ALAMEDA ST**
Property **CARSON, CA 90810**

SWEEPS UST **S101586466**
 CA FID UST **N/A**
 LOS ANGELES CO. HMS

Site 11 of 18 in cluster A

Actual: SWEEPS UST:
19 ft. Status: Active
 Comp Number: 5385
 Number: 9

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS MFG CORP (Continued)

S101586466

Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-005385-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 1

CA FID UST:

Facility ID: 19050949
Regulated By: UTNKA
Regulated ID: 00003098
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: CARSON
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

LOS ANGELES CO. HMS:

Region: LA
Permit Category: T
Facility Id: 005186-005385
Facility Type: 0
Facility Status: Removed
Area: 22
Permit Number: 00003293T
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 005186-105385
Facility Type: 03
Facility Status: Removed
Area: 22
Permit Number: 000003113
Permit Status: Removed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A12 **AIR PRODUCTS, CARSON**
Target **23300 S. ALAMEDA ST.**
Property **CARSON, CA 90810**

TSCA **1011814807**
RMP **N/A**

Site 12 of 18 in cluster A

Actual:
19 ft.

[Click this hyperlink](#) while viewing on your computer to access additional TSCA detail in the EDR Site Report.

RMP:

Facility ID: 31688
LEPC city: California Region 1 LEPC
Facility decimal latitude: 33.812778
Facility decimal longitude: -118.231389
Is facility in county box: T
LatLong method: I2
LatLong description: ST
Home page web address: www.airproducts.com
Facility telephone: 3108477300
Facility email: Not reported
Facility DUNS #: 0
Parent's name: Air Products and Chemicals, Inc.
Partner's name: Not reported
Parent's DUNS #: 3001070
Partner's DUNS #: 0
Operator's name: Air Products and Chemicals, Inc.
Operator's telephone: 3108477300
Operator's address: 23300 S. Alameda St.
Operators City,St,Zip: Carson, CA 90810 1915
RMP implementation contact: David Barnes
RMP contact title: Plant Manager
Emergency contact: David Barnes
Emergency contact title: Plant Manager
Emergency contact telephone: 3108477300
24 hour emergency telephone: 3105620936
Emergency contact ext/pin #: N/A
Number of full time employees: 11
EPA ID: Not reported
Facility ID provided by CEPPO: 100000162218
Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): F
Clean air op. permit/State ID: Not reported
Last safety insp. dat: Not reported
Inspected by: Never had one
Is it OSHA approved with star/merit ranking: False
Will RMP involve predictive filing: False
Submission type: Resubmission
RMP description: Carson Hydrogen Plant
Facility has no accident hist. recs: True
Foreign owner's address: Not reported
Foreign owner's zip: Not reported
Foreign owner's country: Not reported
Claim # of employees as CBI: False
Date RMP accepted by EPA: 2004-07-06 00:00:00
Date of error Report: Not reported
Date RMP received: 2004-06-15 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Was certification letter received: True
RMP submission method: RMP*Submit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 2004-06-14 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Anniversary date: 2009-06-14 00:00:00
Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 3.1
FRS latitude: 33.812800000000003
FRS longitude: -118.232879999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:

Process ID: 45930
NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Date of participation plan review: Not reported
Date of hot work permit review: Not reported
Date of contractor safety review: Not reported
Date of contractor safety eval. review: Not reported
Record has CBI data: Not reported
Safety review date: Not reported
Federal Regulation: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Federal regulation comment: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent hazard review/update: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Expected completion of review changes: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported
Chemical name: Flammable Mixture
Process chemical qty in 100s lbs: 46000
Process flammable chemical name: Hydrogen
Process flammable chemical name: Methane

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Environmental receptors:	Not reported
Passive mitigation:	Not reported
RMP:	
Endpoint used:	Not reported
LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent hazard review/update: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Expected completion of review changes: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported

RMP:

ER plan: Not reported
ER plan most recent review date: 1999-09-01 00:00:00
ER plan most recent employee training date: 1999-07-13 00:00:00
Local agency coordinating ER plan: LA County Fire Department
Telephone of the coordinating local agency: 3238904229
Federal regulation: True
OSHA 1910 120: True
SPCC: True
RCRA: True
OPA 90: False
EPCRA: True
Other Regulations: Not reported

RMP:

Facility ID: 1000042236
LEPC city: California Region 1 LEPC
Facility decimal latitude: 33.812778
Facility decimal longitude: -118.231389
Is facility in county box: T
LatLong method: I2
LatLong description: ST
Home page web address: www.airproducts.com
Facility telephone: 3108477300
Facility email: Not reported
Facility DUNS #: 0
Parent's name: Air Products and Chemicals, Inc.
Partner's name: Not reported
Parent's DUNS #: 3001070
Partner's DUNS #: 0
Operator's name: Air Products and Chemicals, Inc.
Operator's telephone: 3108477300
Operator's address: 23300 S. Alameda St.
Operators City,St,Zip: Carson, CA 90810 1915
RMP implementation contact: Christopher M. Mc Williams
RMP contact title: Area Plant Manager
Emergency contact: Christopher M.Mc Williams
Emergency contact title: Area Plant Manager
Emergency contact telephone: 3109529928

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

24 hour emergency telephone: 3108477300
Emergency contact ext/pin #: N/A
Number of full time employees: 11
EPA ID: Not reported
Facility ID provided by CEPPO: 100000162218
Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): T
Clean air op. permit/State ID: 3417
Last safety insp. dat: 2013-11-12 00:00:00
Inspected by: Fire Department
Is it OSHA approved with star/merit ranking: False
Will RMP involve predictive filing: False
Submission type: Resubmission
RMP description: Not reported
Facility has no accident hist. recs: False
Foreign owner's address: Not reported
Foreign owner's zip: Not reported
Foreign owner's country: Not reported
Claim # of employees as CBI: False
Date RMP accepted by EPA: 2014-05-13 00:00:00
Date of error Report: Not reported
Date RMP received: 2014-05-13 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: False
Was certification letter received: True
RMP submission method: RMP*eSubmit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 2014-05-13 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Anniversary date: 2019-05-13 00:00:00
Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 1.0
FRS latitude: 33.812800000000003
FRS longitude: -118.232879999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:

Process ID: 1000052054
NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Date of participation plan review: Not reported
Date of hot work permit review: Not reported
Date of contractor safety review: Not reported
Date of contractor safety eval. review: Not reported
Record has CBI data: Not reported
Safety review date: Not reported
Federal Regulation: Not reported
Federal regulation comment: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent hazard review/update: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Expected completion of review changes: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported
Chemical name: Flammable Mixture
Process chemical qty in 100s lbs: 46000
Process flammable chemical name: Methane
Process flammable chemical name: Hydrogen

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported

Map ID
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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
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AIR PRODUCTS, CARSON (Continued)

1011814807

Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
RMP:	
ER plan:	Not reported
ER plan most recent review date:	2014-04-04 00:00:00
ER plan most recent employee training date:	2014-04-04 00:00:00
Local agency coordinating ER plan:	LA City Fire Department
Telephone of the coordinating local agency:	3238303170
Federal regulation:	True
OSHA 1910 120:	True
SPCC:	True
RCRA:	True
OPA 90:	False
EPCRA:	True
Other Regulations:	Not reported
RMP:	
Facility ID:	1000003842

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

LEPC city: California Region 1 LEPC
Facility decimal latitude: 33.812778
Facility decimal longitude: -118.231389
Is facility in county box: T
LatLong method: I2
LatLong description: ST
Home page web address: www.airproducts.com
Facility telephone: 3108477300
Facility email: Not reported
Facility DUNS #: 0
Parent's name: Air Products and Chemicals, Inc.
Partner's name: Not reported
Parent's DUNS #: 3001070
Partner's DUNS #: 0
Operator's name: Air Products and Chemicals, Inc.
Operator's telephone: 3108477300
Operator's address: 23300 S. Alameda St.
Operators City,St,Zip: Carson, CA 90810 1915
RMP implementation contact: Janice Zogelmann
RMP contact title: Plant Manager
Emergency contact: Janice Zogelmann
Emergency contact title: Plant Manager
Emergency contact telephone: 3108477300
24 hour emergency telephone: 3109529172
Emergency contact ext/pin #: N/A
Number of full time employees: 9
EPA ID: Not reported
Facility ID provided by CEPPO: 100000162218
Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): T
Clean air op. permit/State ID: 3417
Last safety insp. dat: 2008-08-25 00:00:00
Inspected by: Fire Department
Is it OSHA approved with star/merit ranking: False
Will RMP involve predictive filing: False
Submission type: Resubmission
RMP description: Not reported
Facility has no accident hist. recs: False
Foreign owner's address: Not reported
Foreign owner's zip: Not reported
Foreign owner's country: Not reported
Claim # of employees as CBI: False
Date RMP accepted by EPA: 2009-06-08 00:00:00
Date of error Report: Not reported
Date RMP received: 2009-06-08 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: False
Was certification letter received: True
RMP submission method: RMP*eSubmit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 2009-06-08 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Anniversary date: 2014-06-08 00:00:00

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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 1.0
FRS latitude: 33.812800000000003
FRS longitude: -118.23287999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:

Process ID: 1000004731
NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported

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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Analytical basic:	EPA's OCA Guidance Reference Tables or Equations
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported

RMP:

Analytical basic:	EPA's OCA Guidance Reference Tables or Equations
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported
Chemical name: Flammable Mixture
Process chemical qty in 100s lbs: 46000
Process flammable chemical name: Hydrogen
Process flammable chemical name: Methane

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported

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AIR PRODUCTS, CARSON (Continued)

1011814807

Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Date of participation plan review: Not reported
Date of hot work permit review: Not reported
Date of contractor safety review: Not reported
Date of contractor safety eval. review: Not reported
Record has CBI data: Not reported
Safety review date: Not reported
Federal Regulation: Not reported
Federal regulation comment: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent hazard review/update: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Expected completion of review changes: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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AIR PRODUCTS, CARSON (Continued)

1011814807

Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported

RMP:

ER plan: Not reported
ER plan most recent review date: 2009-04-27 00:00:00
ER plan most recent employee training date: 1909-05-21 00:00:00
Local agency coordinating ER plan: LA City Fire Department
Telephone of the coordinating local agency: 3238303170
Federal regulation: True
OSHA 1910 120: True
SPCC: True
RCRA: True
OPA 90: False
EPCRA: True
Other Regulations: Not reported

RMP:

Facility ID: 43824
LEPC city: California Region 1 LEPC
Facility decimal latitude: 33.812778
Facility decimal longitude: -118.231389
Is facility in county box: T
LatLong method: I2
LatLong description: ST
Home page web address: www.airproducts.com
Facility telephone: 3108477300
Facility email: Not reported
Facility DUNS #: 0
Parent's name: Air Products and Chemicals, Inc.
Partner's name: Not reported
Parent's DUNS #: 3001070
Partner's DUNS #: 3001070
Operator's name: Air Products and Chemicals, Inc.
Operator's telephone: 3108477300
Operator's address: 23300 S. Alameda St.
Operators City,St,Zip: Carson, CA 90810 1915
RMP implementation contact: Janice Zogelmann
RMP contact title: Plant Manager
Emergency contact: Janice Zogelmann
Emergency contact title: Plant Manager
Emergency contact telephone: 3108477300
24 hour emergency telephone: 3109529172
Emergency contact ext/pin #: N/A
Number of full time employees: 9
EPA ID: Not reported
Facility ID provided by CEPPO: 100000162218
Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): T
Clean air op. permit/State ID: 3417
Last safety insp. dat: Not reported
Inspected by: Never had one

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MAP FINDINGS

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Database(s)

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AIR PRODUCTS, CARSON (Continued)

1011814807

Is it OSHA approved with star/merit ranking: False
Will RMP involve predictive filing: False
Submission type: Correction
RMP description: Carson Hydrogen Plant
Facility has no accident hist. recs: True
Foreign owner's address: Not reported
Foreign owner's zip: Not reported
Foreign owner's country: Not reported
Claim # of employees as CBI: False
Date RMP accepted by EPA: 2009-06-05 00:00:00
Date of error Report: Not reported
Date RMP received: 2005-09-16 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: True
Was certification letter received: True
RMP submission method: RMP*Submit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 2005-09-14 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Anniversary date: 2009-06-14 00:00:00
Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 3.6
FRS latitude: 33.812800000000003
FRS longitude: -118.232879999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:

Process ID: 63187
NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Flammable Mixture
Process chemical qty in 100s lbs: 46000
Process flammable chemical name: Hydrogen
Process flammable chemical name: Methane

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported

Map ID
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Database(s)

EDR ID Number
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AIR PRODUCTS, CARSON (Continued)

1011814807

Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported

Map ID
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EDR ID Number
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AIR PRODUCTS, CARSON (Continued)

1011814807

Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
Chemical name:	Public OCA Chemical
Process chemical qty in 100s lbs:	0
Process flammable chemical name:	Not reported

RMP:

Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported

RMP:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported

RMP:

ER plan:	Not reported
ER plan most recent review date:	1999-09-01 00:00:00
ER plan most recent employee training date:	1999-07-13 00:00:00
Local agency coordinating ER plan:	LA County Fire Department
Telephone of the coordinating local agency:	3238904229
Federal regulation:	True
OSHA 1910 120:	True
SPCC:	True
RCRA:	True
OPA 90:	False
EPCRA:	True
Other Regulations:	Not reported

RMP:

Facility ID:	1000058361
LEPC city:	California Region 1 LEPC
Facility decimal latitude:	33.812778
Facility decimal longitude:	-118.231389
Is facility in county box:	T
LatLong method:	I2
LatLong description:	ST
Home page web address:	www.airproducts.com
Facility telephone:	3108477300
Facility email:	Not reported
Facility DUNS #:	0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Parent's name: Air Products and Chemicals, Inc.
Partner's name: Not reported
Parent's DUNS #: 3001070
Partner's DUNS #: 0
Operator's name: Air Products and Chemicals, Inc.
Operator's telephone: 3108477300
Operator's address: 23300 S. Alameda St.
Operators City,St,Zip: Carson, CA 90810 1915
RMP implementation contact: Roger Han
RMP contact title: Area Plant Manager
Emergency contact: Roger Han
Emergency contact title: Area Plant Manager
Emergency contact telephone: 3109529928
24 hour emergency telephone: 4243396428
Emergency contact ext/pin #: N/A
Number of full time employees: 11
EPA ID: Not reported
Facility ID provided by CEPPO: 100000162218
Is facility covered by OSHA PSM: T
Is facility covered by EPCRA 302: T
Is fac. covered by CAA Title V 112(2): T
Clean air op. permit/State ID: 3417
Last safety insp. dat: 2017-05-17 00:00:00
Inspected by: Fire Department
Is it OSHA approved with star/merit ranking: False
Will RMP involve predictive filing: False
Submission type: Resubmission
RMP description: Not reported
Facility has no accident hist. recs: False
Foreign owner's address: Not reported
Foreign owner's zip: Not reported
Foreign owner's country: Not reported
Claim # of employees as CBI: False
Date RMP accepted by EPA: 2017-07-10 00:00:00
Date of error Report: Not reported
Date RMP received: 2016-07-01 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: False
Was certification letter received: True
RMP submission method: RMP*eSubmit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 2016-07-01 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Aniversary date: 2021-07-01 00:00:00
Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 1.0
FRS latitude: 33.812800000000003
FRS longitude: -118.232879999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:
Process ID: 1000072890

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant\H2 Storage
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

RMP:

Analytical basis:	EPA's RMP*Comp(TM)
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Record has CBI data: Not reported
Date of most recent changes: Not reported
Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:
Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:
Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:
Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:
Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
Chemical name:	Flammable Mixture
Process chemical qty in 100s lbs:	45608
Process flammable chemical name:	Methane

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Process flammable chemical name: Hydrogen

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
Chemical name:	Hydrogen
Process chemical qty in 100s lbs:	8087
Process flammable chemical name:	Not reported
RMP:	
Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Percent weight of chemical:	Not reported
Physical state:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Release duration in minutes:	Not reported
Release rate in pounds per second:	Not reported
Wind speed in meters/second:	Not reported
Stability class:	Not reported
Topography:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
RMP:	
Endpoint used:	Not reported
LFL value:	Not reported
Analytical basic:	Not reported
Scenario:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Active mitigation:	Not reported
RMP:	
Analytical basic:	Not reported
Quantity released in pounds:	Not reported
Distance to endpoint in miles:	Not reported
Residential population:	Not reported
Public receptors:	Not reported
Environmental receptors:	Not reported
Passive mitigation:	Not reported
Safety review date:	Not reported
Most recent PHA date:	Not reported
Process Hazard Analysis:	Not reported
Expected PHA changes completion date:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814807

Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent changes by mgmt:	Not reported
Date of most recent review/update:	Not reported
Date of pre-start review:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Date of participation plan review:	Not reported
Date of hot work permit review:	Not reported
Date of contractor safety review:	Not reported
Date of contractor safety eval. review:	Not reported
Record has CBI data:	Not reported
Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported
RMP:	
ER plan:	Not reported
ER plan most recent review date:	2017-06-05 00:00:00
ER plan most recent employee training date:	2017-06-05 00:00:00
Local agency coordinating ER plan:	LA City Fire Department
Telephone of the coordinating local agency:	3238303170
Federal regulation:	True
OSHA 1910 120:	True
SPCC:	True
RCRA:	True
OPA 90:	False
EPCRA:	True
Other Regulations:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A13 **AIR PRODUCTS & CHEMICALS INC**
Target **23300 S ALAMEDA ST**
Property **CARSON, CA 90810**

TRIS **1012010279**
90810RPRDS23300

Site 13 of 18 in cluster A

Actual: TRIS:
19 ft.

[Click this hyperlink](#) while viewing on your computer to access
 3 additional US_TRIS: record(s) in the EDR Site Report.

A14 **AIR PRODUCTS, CARSON**
Target **23000 S. ALAMEDA ST.**
Property **CARSON, CA 90810**

RMP **1011814806**
N/A

Site 14 of 18 in cluster A

Actual:
19 ft.

RMP:

Facility ID:	17717
LEPC city:	California Region 1 LEPC
Facility decimal latitude:	33.812778
Facility decimal longitude:	-118.231389
Is facility in county box:	T
LatLong method:	I4
LatLong description:	CE
Home page web address:	www.airproducts.com
Facility telephone:	3109529172
Facility email:	Not reported
Facility DUNS #:	0
Parent's name:	Air Products and Chemicals, Inc.
Partner's name:	Not reported
Parent's DUNS #:	3001070
Partner's DUNS #:	0
Operator's name:	Air Products and Chemicals, Inc.
Operator's telephone:	3108477300
Operator's address:	23000 S. Alameda St.
Operators City,St,Zip:	Carson, CA 90810 1915
RMP implementation contact:	Marc Steinman
RMP contact title:	Plant Manager
Emergency contact:	Marc Steinman
Emergency contact title:	Plant Manager
Emergency contact telephone:	3109529172
24 hour emergency telephone:	8885796220
Emergency contact ext/pin #:	Not reported
Number of full time employees:	11
EPA ID:	Not reported
Facility ID provided by CEPPO:	100000162218
Is facility covered by OSHA PSM:	T
Is facility covered by EPCRA 302:	T
Is fac. covered by CAA Title V 112(2):	F
Clean air op. permit/State ID:	Not reported
Last safety insp. dat:	Not reported
Inspected by:	Never had one
Is it OSHA approved with star/merit ranking:	False
Will RMP involve predictive filing:	False
Submission type:	First Time
RMP description:	Carson Hydrogen Plant
Facility has no accident hist. recs:	True
Foreign owner's address:	Not reported
Foreign owner's zip:	Not reported
Foreign owner's country:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814806

Claim # of employees as CBI: False
Date RMP accepted by EPA: 1999-09-28 00:00:00
Date of error Report: Not reported
Date RMP received: 1999-09-27 00:00:00
Does RMP contain graphics files: False
Does RMP contain attachments: False
Was certification letter received: True
RMP submission method: RMP*Submit
Does RMP contain CBI substantiation: False
Does RMP contain electronic waiver: False
Date RMP postmarked: 1999-09-23 00:00:00
Is RMP complete: True
Date of de-registration: Not reported
Date de-registration is effective: Not reported
Anniversary date: 2004-09-23 00:00:00
Does RMP contain CBI data: False
Does RMP contain unsanitized CBI version: False
RMP version #: 1.1.7
FRS latitude: 33.812800000000003
FRS longitude: -118.23287999999999
FRS Description: PLANT ENTRANCE (GENERAL)
FRS Method: ADDRESS MATCHING-HOUSE NUMBER

RMP:

Process ID: 24932
NA & Industry Classification Sys.code(s): 32512
NAICS code description: Industrial Gas Manufacturing
Optional facility description: Hydrogen Plant
Program level: 3
Record contains CBI data: False

RMP:

Chemical name: Public OCA Chemical
Process chemical qty in 100s lbs: 0
Process flammable chemical name: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814806

Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: EPA's OCA Guidance Reference Tables or Equations
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Date of participation plan review: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814806

Date of hot work permit review: Not reported
Date of contractor safety review: Not reported
Date of contractor safety eval. review: Not reported
Record has CBI data: Not reported
Safety review date: Not reported
Federal Regulation: Not reported
Federal regulation comment: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent hazard review/update: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Expected completion of review changes: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Record has CBI data: Not reported
Date of most recent changes: Not reported
Chemical name: Flammable Mixture
Process chemical qty in 100s lbs: 46000
Process flammable chemical name: Hydrogen
Process flammable chemical name: Methane

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported
Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Percent weight of chemical: Not reported
Physical state: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Release duration in minutes: Not reported
Release rate in pounds per second: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814806

Wind speed in meters/second: Not reported
Stability class: Not reported
Topography: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported

RMP:

Endpoint used: Not reported
LFL value: Not reported
Analytical basic: Not reported
Scenario: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Active mitigation: Not reported

RMP:

Analytical basic: Not reported
Quantity released in pounds: Not reported
Distance to endpoint in miles: Not reported
Residential population: Not reported
Public receptors: Not reported
Environmental receptors: Not reported
Passive mitigation: Not reported
Safety review date: Not reported
Most recent PHA date: Not reported
Process Hazard Analysis: Not reported
Expected PHA changes completion date: Not reported
Major Hazard: Not reported
Process Control: Not reported
Mitigation Systems: Not reported
Monitoring/Detection: Not reported
Changes since the last process hazard analysis: Not reported
Most recent review of op. procedures: Not reported
Most recent training progs review/update: Not reported
Training: Not reported
Competency testing: Not reported
Most recent maintenance review date: Not reported
Most recent equipment inspection date: Not reported
Equipment tested: Not reported
Most recent changes by mgmt: Not reported
Date of most recent review/update: Not reported
Date of pre-start review: Not reported
Most recent compliance audit date: Not reported
Expected date of audit completion: Not reported
Most recent incident investigation: Not reported
Expected date of investigation changes: Not reported
Date of participation plan review: Not reported
Date of hot work permit review: Not reported
Date of contractor safety review: Not reported
Date of contractor safety eval. review: Not reported
Record has CBI data: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS, CARSON (Continued)

1011814806

Safety review date:	Not reported
Federal Regulation:	Not reported
Federal regulation comment:	Not reported
Major Hazard:	Not reported
Process Control:	Not reported
Mitigation Systems:	Not reported
Monitoring/Detection:	Not reported
Changes since the last process hazard analysis:	Not reported
Most recent hazard review/update:	Not reported
Most recent review of op. procedures:	Not reported
Most recent training progs review/update:	Not reported
Expected completion of review changes:	Not reported
Training:	Not reported
Competency testing:	Not reported
Most recent maintenance review date:	Not reported
Most recent equipment inspection date:	Not reported
Equipment tested:	Not reported
Most recent compliance audit date:	Not reported
Expected date of audit completion:	Not reported
Most recent incident investigation:	Not reported
Expected date of investigation changes:	Not reported
Record has CBI data:	Not reported
Date of most recent changes:	Not reported

RMP:

ER plan:	Not reported
ER plan most recent review date:	1999-09-01 00:00:00
ER plan most recent employee training date:	1999-07-13 00:00:00
Local agency coordinating ER plan:	LA County Fire Department
Telephone of the coordinating local agency:	3238904229
Federal regulation:	True
OSHA 1910 120:	True
SPCC:	True
RCRA:	True
OPA 90:	False
EPCRA:	True
Other Regulations:	Not reported

**A15
 Target
 Property**

**AIR PRODUCTS AND CHEMICALS INC
 901 W 12TH ST
 LONG BEACH, CA 90813**

**HAZNET S113173215
 N/A**

Site 15 of 18 in cluster A

**Actual:
 19 ft.**

HAZNET:

envid:	S113173215
Year:	2016
GEPAID:	CAR000001537
Contact:	KEITH J. LEINBACH
Telephone:	6104814737
Mailing Name:	Not reported
Mailing Address:	98 INDUSTRIAL CT
Mailing City,St,Zip:	GALT, CA 956321562
Gen County:	Los Angeles
TSD EPA ID:	CAD980675276
TSD County:	Kern
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODUCTS AND CHEMICALS INC (Continued)

S113173215

(H010-H129) Or (H131-H135)
Tons: 0.04
Cat Decode: Other inorganic solid waste
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: Los Angeles

envid: S113173215
Year: 2016
GEPaid: CAR000001537
Contact: KEITH J. LEINBACH
Telephone: 6104814737
Mailing Name: Not reported
Mailing Address: 98 INDUSTRIAL CT
Mailing City,St,Zip: GALT, CA 956321562
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To
Include On-Site Treatment And/Or Stabilization)
Tons: 68.54
Cat Decode: Asbestos containing waste
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To
Include On-Site Treatment And/Or Stabilization)
Facility County: Los Angeles

envid: S113173215
Year: 2015
GEPaid: CAR000001537
Contact: KEITH J. LEINBACH
Telephone: 6104814737
Mailing Name: Not reported
Mailing Address: 98 INDUSTRIAL CT
Mailing City,St,Zip: GALT, CA 956321562
Gen County: Los Angeles
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.03
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113173215
Year: 2015
GEPaid: CAR000001537
Contact: KEITH J. LEINBACH
Telephone: 6104814737
Mailing Name: Not reported
Mailing Address: 98 INDUSTRIAL CT
Mailing City,St,Zip: GALT, CA 956321562
Gen County: Los Angeles
TSD EPA ID: CAD044429835
TSD County: Los Angeles

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AIR PRODUCTS AND CHEMICALS INC (Continued)

S113173215

Waste Category: Off-specification, aged or surplus organics
 Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
 Tons: 0.04
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: Los Angeles

envid: S113173215
 Year: 2015
 GEPAID: CAR000001537
 Contact: KEITH J. LEINBACH
 Telephone: 6104814737
 Mailing Name: Not reported
 Mailing Address: 98 INDUSTRIAL CT
 Mailing City,St,Zip: GALT, CA 956321562
 Gen County: Los Angeles
 TSD EPA ID: CAD044429835
 TSD County: Los Angeles
 Waste Category: Waste oil and mixed oil
 Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
 Tons: 0.22
 Cat Decode: Not reported
 Method Decode: Not reported
 Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 46 additional CA_HAZNET: record(s) in the EDR Site Report.

**A16
 Target
 Property**

**AIR PRODUCTS & CHEMICALS
 23320 ALAMEDA ST S
 CARSON, CA**

**RGA LUST S114569209
 N/A**

Site 16 of 18 in cluster A

**Actual:
 19 ft.**

RGA LUST:

1998	AIR PRODUCTS & CHEMICALS	23320 ALAMEDA ST S
1997	AIR PRODUCTS & CHEMICALS	23320 ALAMEDA ST S
1996	AIR PRODUCTS & CHEMICALS	23320 ALAMEDA ST S
1995	AIR PRODUCTS & CHEMICALS	23320 ALAMEDA ST S

**A17
 Target
 Property**

**AIR PRODS & CHEMS INC
 23320 S ALAMEDA ST
 LONG BEACH, CA 90810**

**SEMS-ARCHIVE 1015732942
 RCRA-SQG CAT080010655**

Site 17 of 18 in cluster A

**Actual:
 19 ft.**

SEMS Archive:

Site ID:	902667
EPA ID:	CAT080010655
Cong District:	32
FIPS Code:	6037
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODS & CHEMS INC (Continued)

1015732942

SEMS Archive Detail:

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1992-01-23 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 3
Start Date: Not reported
Finish Date: 1992-01-23 00:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1988-12-21 00:00:00
Qual: L
Current Action Lead: EPA Perf

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODS & CHEMS INC (Continued)

1015732942

Finish Date: 1991-04-15 00:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: 1985-07-01 00:00:00
Finish Date: 1986-01-01 00:00:00
Qual: L
Current Action Lead: St Perf

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1985-09-01 00:00:00
Finish Date: 1985-09-01 00:00:00
Qual: Not reported
Current Action Lead: St Perf

Region: 9
Site ID: 902667
EPA ID: CAT080010655
Site Name: AIR PRODUCTS & CHEM INC
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1990-08-15 00:00:00
Qual: N
Current Action Lead: St Perf

RCRA-SQG:

Date form received by agency: 09/01/1996
Facility name: AIR PRODS & CHEMS INC
Facility address: 23320 S ALAMEDA ST
LONG BEACH, CA 90810
EPA ID: CAT080010655
Mailing address: 23320 SOUTH ALAMEDA STREET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODS & CHEMS INC (Continued)

1015732942

LONG BEACH, CA 90810
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: 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
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: AIR PRODUCTS AND CHEMICALS INC
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

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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AIR PRODS & CHEMS INC (Continued)

1015732942

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 08/18/1980
Site name: AIR PRODS & CHEMS INC
Classification: Large Quantity Generator

Violation Status: No violations found

**A18
Target
Property**

**AIR PRODUCTS & CHEMICALS, INC.
23320 ALAMEDA ST S
CARSON, CA**

RGA LUST

**S114569204
N/A**

Site 18 of 18 in cluster A

**Actual:
19 ft.**

RGA LUST:

2007	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S
2006	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S
2005	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S
2003	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S
2001	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S
2000	AIR PRODUCTS & CHEMICALS, INC.	23320 ALAMEDA ST S

**NPL
Region
ENE
< 1/8
71 ft.**

**MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502**

**NPL 1000420366
SEMS CAD008242711
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
ROD
PRP
ICIS
CONSENT**

NPL:

EPA ID: CAD008242711
Cerclis ID: 900993
EPA Region: 9
Federal: N
Final Date: 1989-10-04 00:00:00
Site Score: 32.100000000000001
Latitude: 33.848331
Longitude: -118.2983

Category Details:

NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 100 Feet
Category Value: 400

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 100

Site Details:

Site Name: MONTROSE CHEMICAL CORP.
Site Status: Final

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site Zip: 90502
Site City: TORRANCE
Site State: CA
Federal Site: No
Site County: LOS ANGELES
EPA Region: 09
Date Proposed: 10/15/84
Date Deleted: Not reported
Date Finalized: 10/04/89

Substance Details:

NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A023
Substance: DDE
CAS #: 72-55-9
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U060
Substance: DDD
CAS #: 72-54-8
Pathway: AIR PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U061
Substance: DDT
CAS #: 50-29-3
Pathway: AIR PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U061
Substance: DDT
CAS #: 50-29-3
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U061
Substance: DDT
CAS #: 50-29-3
Pathway: SURFACE WATER PATHWAY
Scoring: 3

Summary Details:

Conditions at proposal October 15, 1984): Montrose Chemical Corp. manufactured DDT on a 13-acre site in a light industrial/residential area of

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Torrance, Los Angeles County, California, from 1947 until 1982. About 3,000 people live or work within 0.25 mile of the site. The company's operations included formulation, grinding, packaging, and distribution of DDT. According to analyses conducted by EPA, Montrose, and various State and local agencies, on- and off-site soils, surface water, and sediments are contaminated with DDT. The major transport mechanisms identified were storm water run-off and aerial emissions. On May 6, 1983, EPA issued an Administrative Order under CERCLA Section 106 requiring Montrose Chemical to cease all discharges of DDT and to initiate a study to determine the nature and extent of contamination. After a more detailed review of the Montrose site, EPA determined that further work was necessary to characterize the site and evaluate alternatives. Therefore, EPA prepared a workplan for a remedial investigation/feasibility study (RI/FS). This second phase of investigation will assess all areas of contamination, both on- and off-site, and any public health and environmental impacts. Status June 1986): In February 1985, Montrose installed a temporary asphalt cover over the site. EPA did not endorse this activity. In the summer of 1985, EPA conducted Part I of the RI. On-site sampling found high levels of contamination at 77-foot depths in soil and in shallow ground water. In October 1985, Montrose and EPA signed an Administrative Order under CERCLA Section 106 requiring Montrose to conduct Part II of the RI, which includes on-site sampling of ground water and off-site sampling of soil, sediments, surface water, and ground water. Status November 1988): During July 1986, EPA sampled off-site dust and soil and verified that DDT migrated off-site via aerial dispersion. In November 1986, Montrose completed Phase I sampling under Part II of the RI. Results indicated that soils near the site are contaminated with high levels of DDT, and that the two shallower aquifers in the four-aquifer system underlying the site are contaminated with DDT and monochlorobenzene. In October 1987, EPA and Montrose signed an amendment to the October 1985 Administrative Order, calling for both on- and off-site sampling of the two deeper aquifers in the four-aquifer system. Status October 4, 1989): In July 1989, EPA and Montrose signed a second amendment to the original order, under which Montrose will conduct the FS for the overall site and evaluate options for removing DDT-contaminated sediments in the sanitary sewer lines near the site. Sampling conducted under the first amended order indicates that ground water is contaminated with high levels of monochlorobenzene 0.25 mile downgradient from the site. Deep wells and additional downgradient wells will be constructed and sampled.

Site Status Details:

NPL Status: Final
Proposed Date: 10/15/1984
Final Date: 10/04/1989
Deleted Date: Not reported

Narratives Details:

NPL Name: MONTROSE CHEMICAL CORP.
City: TORRANCE
State: CA

SEMS:

Site ID: 900993
EPA ID: CAD008242711
Cong District: Not reported
FIPS Code: 6037
Latitude: 33.84833100000002

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Longitude: -118.2983
FF: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: NF
Action Name: NPL FINL
SEQ: 1
Start Date: 1989-10-04 00:00:00
Finish Date: 10/4/1989
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: CR
Action Name: CI
SEQ: 2
Start Date: 1997-08-14 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: HR
Action Name: HAZRANK
SEQ: 1
Start Date: 1988-06-01 00:00:00
Finish Date: 6/1/1988
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Action Code: AR
Action Name: ADMIN REC
SEQ: 1
Start Date: 1991-06-05 00:00:00
Finish Date: 6/5/1991
Qual: V
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: AR
Action Name: ADMIN REC
SEQ: 3
Start Date: 1998-05-01 00:00:00
Finish Date: 6/30/1998
Qual: E
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 1
Action Code: RI
Action Name: RI
SEQ: 2
Start Date: 1998-01-08 00:00:00
Finish Date: 5/18/1998
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: RV
Action Name: RMVL
SEQ: 2
Start Date: 1994-03-24 00:00:00
Finish Date: 9/30/2009
Qual: S
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NPL: F
FF: N
OU: 3
Action Code: RO
Action Name: ROD
SEQ: 2
Start Date: 1999-03-30 00:00:00
Finish Date: 3/30/1999
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: FE
Action Name: 5 YEAR
SEQ: 1
Start Date: 2013-09-12 00:00:00
Finish Date: 8/28/2014
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1984-04-01 00:00:00
Finish Date: 4/1/1984
Qual: H
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: RS
Action Name: RV ASSESS
SEQ: 2
Start Date: 1991-12-11 00:00:00
Finish Date: 12/11/1991
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: RA
Action Name: RA
SEQ: 14
Start Date: 2013-09-03 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: RA
Action Name: RA
SEQ: 13
Start Date: 2009-09-30 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: RD
Action Name: RD
SEQ: 16
Start Date: 2013-08-22 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: CR
Action Name: CI
SEQ: 6
Start Date: 2016-04-19 00:00:00
Finish Date: Not reported
Qual: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	CR
Action Name:	CI
SEQ:	5
Start Date:	2010-05-19 00:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	1
Action Code:	TS
Action Name:	TRTSTUDY
SEQ:	1
Start Date:	1992-06-01 00:00:00
Finish Date:	8/12/1994
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	1
Action Code:	ED
Action Name:	R/H ASMT
SEQ:	1
Start Date:	1992-03-01 00:00:00
Finish Date:	5/1/2017
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	RV
Action Name:	RMVL
SEQ:	1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Start Date: 1994-04-11 00:00:00
Finish Date: 6/30/1999
Qual: C
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-04-01 00:00:00
Finish Date: 4/1/1984
Qual: H
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: EE
Action Name: EE/CA
SEQ: 2
Start Date: 1996-07-09 00:00:00
Finish Date: 9/28/2001
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: MA
Action Name: ST COOP
SEQ: 1
Start Date: 1989-04-30 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Action Code: NP
Action Name: PROPOSED
SEQ: 1
Start Date: 1984-10-15 00:00:00
Finish Date: 10/15/1984
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: FS
Action Name: FS
SEQ: 3
Start Date: 1997-08-14 00:00:00
Finish Date: 3/30/1999
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 1
Action Code: RI
Action Name: RI
SEQ: 1
Start Date: 1985-01-01 00:00:00
Finish Date: 4/30/1986
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: MA
Action Name: ST COOP
SEQ: 2
Start Date: 2010-10-07 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NPL: F
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-01-01 00:00:00
Finish Date: 1/1/1980
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 1
Action Code: ED
Action Name: R/H ASMT
SEQ: 2
Start Date: 1992-03-01 00:00:00
Finish Date: 5/1/2017
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: AR
Action Name: ADMIN REC
SEQ: 4
Start Date: 2000-03-24 00:00:00
Finish Date: Not reported
Qual: V
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: CR
Action Name: CI
SEQ: 3
Start Date: 2001-02-15 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 4
Action Code: RV
Action Name: RMVL
SEQ: 4
Start Date: 2001-04-12 00:00:00
Finish Date: 3/6/2002
Qual: C
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: AR
Action Name: ADMIN REC
SEQ: 5
Start Date: 2000-08-24 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 2
Action Code: EE
Action Name: EE/CA
SEQ: 3
Start Date: 2008-06-04 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 4
Action Code: CO
Action Name: RI/FS
SEQ: 2
Start Date: 1994-03-02 00:00:00
Finish Date: Not reported
Qual: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	3
Action Code:	RD
Action Name:	RD
SEQ:	2
Start Date:	1999-08-01 00:00:00
Finish Date:	5/27/2003
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	4
Action Code:	RV
Action Name:	RMVL
SEQ:	3
Start Date:	2001-05-08 00:00:00
Finish Date:	9/26/2002
Qual:	C
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1990-08-01 00:00:00
Finish Date:	8/1/1990
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Start Date: 1994-06-28 00:00:00
Finish Date: 6/28/1994
Qual: V
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: RC
Action Name: RVL CRP
SEQ: 1
Start Date: 1994-04-11 00:00:00
Finish Date: 9/24/1998
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: RD
Action Name: RD
SEQ: 5
Start Date: 2009-07-22 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: AR
Action Name: ADMIN REC
SEQ: 6
Start Date: 2004-11-30 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Action Code: ROD
Action Name: ROD
SEQ: 4
Start Date: 2009-09-30 00:00:00
Finish Date: 9/30/2009
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 5
Action Code: CO
Action Name: RI/FS
SEQ: 3
Start Date: 2003-07-17 00:00:00
Finish Date: 5/27/2009
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: TA
Action Name: TECH ASSIST
SEQ: 1
Start Date: 2001-04-03 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 2
Action Code: RI
Action Name: RI
SEQ: 3
Start Date: 1985-01-01 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NPL: F
FF: N
OU: 4
Action Code: RV
Action Name: RMVL
SEQ: 5
Start Date: 2007-12-03 00:00:00
Finish Date: 2/21/2008
Qual: C
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 6
Action Code: CO
Action Name: RI/FS
SEQ: 4
Start Date: 2005-10-01 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: TG
Action Name: TA GRANT
SEQ: 1
Start Date: 2000-04-07 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: CR
Action Name: CI
SEQ: 4
Start Date: 2004-09-10 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 4
Action Code: PD
Action Name: SITE SEC
SEQ: 1
Start Date: 2008-08-29 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 0
Action Code: CR
Action Name: CI
SEQ: 1
Start Date: 1985-01-02 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: NK
Action Name: PRP FS
SEQ: 2
Start Date: 1985-10-28 00:00:00
Finish Date: 8/14/1997
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 1
Action Code: NK
Action Name: PRP FS
SEQ: 3
Start Date: 1998-01-08 00:00:00
Finish Date: Not reported
Qual: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Current Action Lead:	EPA Ovrsght
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	BB
Action Name:	PRP RV
SEQ:	2
Start Date:	1988-02-19 00:00:00
Finish Date:	3/31/1999
Qual:	C
Current Action Lead:	EPA Ovrsght
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	6
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	4
Start Date:	2016-11-04 00:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Ovrsght
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	0
Action Code:	BB
Action Name:	PRP RV
SEQ:	1
Start Date:	1988-02-19 00:00:00
Finish Date:	6/21/1989
Qual:	C
Current Action Lead:	EPA Ovrsght
Region:	9
Site ID:	900993
EPA ID:	CAD008242711
Site Name:	MONTROSE CHEMICAL CORP.
NPL:	F
FF:	N
OU:	1
Action Code:	BD
Action Name:	PRP RI/FS
SEQ:	2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Start Date: 1986-10-10 00:00:00
Finish Date: 1/8/1998
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: BF
Action Name: PRP RA
SEQ: 1
Start Date: 2012-09-19 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 7
Action Code: BD
Action Name: PRP RI/FS
SEQ: 3
Start Date: 2008-09-24 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 1
Action Code: OM
Action Name: OM
SEQ: 7
Start Date: 2002-03-06 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 6

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Action Code: NA
Action Name: PRP RI
SEQ: 1
Start Date: 2006-07-05 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: OM
Action Name: OM
SEQ: 2
Start Date: 1998-09-30 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 3
Action Code: BE
Action Name: PRP RD
SEQ: 2
Start Date: 2003-05-27 00:00:00
Finish Date: 9/19/2012
Qual: Not reported
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.
NPL: F
FF: N
OU: 6
Action Code: BB
Action Name: PRP RV
SEQ: 3
Start Date: 2006-01-17 00:00:00
Finish Date: 1/17/2006
Qual: S
Current Action Lead: EPA Ovrsght

Region: 9
Site ID: 900993
EPA ID: CAD008242711
Site Name: MONTROSE CHEMICAL CORP.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NPL: F
FF: N
OU: 3
Action Code: NK
Action Name: PRP FS
SEQ: 4
Start Date: 1998-01-08 00:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: EPA Ovrsght

RCRA-LQG:

Date form received by agency: 02/12/2016
Facility name: MONTROSE CHEMICAL COMPANY OF CALIFORNIA
Facility address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502
EPA ID: CAD008242711
Mailing address: ERICKSEN AVENUE NE, SUITE 380
BAINBRIDGE ISLAND, WA 98110
Contact: MICHAEL A PALMER
Contact address: SCOTT STREET, SUITE 104
SAN DIEGO, CA 92106
Contact country: US
Contact telephone: 619-546-8377
Contact email: MPALMER@DEMAXIMIS.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: MONTROSE CHEMICAL CORPORATION OF CALIFOR
Owner/operator address: ERICKSEN AVENUE NE, SUITE 380
BAINBRIDGE ISLAND, WA 98110
Owner/operator country: US
Owner/operator telephone: 619-546-8377
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: 01/01/1947
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Owner/operator name: MONTROSE CHEMICAL COMPANY OF CALIFORNIA
Owner/operator address: Not reported
Owner/operator country: Not reported
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: 01/01/1947
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

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 751
. Waste name: Solids or sludge with halogenated organic comp. > 1000 mg/kg

. Waste code: D018
. Waste name: BENZENE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

Historical Generators:

Date form received by agency: 03/01/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site name: MONTROSE CHEMICAL COMPANY OF CALIFORNIA
Classification: Large Quantity Generator

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: D018
. Waste name: BENZENE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

Date form received by agency: 06/15/2010

Site name: MONTROSE CHEMICAL CORPORATION OF CALIFORNIA
Classification: Large Quantity Generator

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 351
. Waste name: Organic solids with halogens

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D018
. Waste name: BENZENE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-

Date form received by agency: 09/01/1996

Site name: MONTROSE CHEM CORP OF CA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996

Site name: MONTROSE CHEM CORP OF CA

Classification: Small Quantity Generator

Date form received by agency: 08/07/1980

Site name: MONTROSE CHEM CORP OF CA

Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D021
Waste name: CHLORO BENZENE
Amount (Lbs): 1352

Waste code: U060
Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO-37072
Amount (Lbs): 37072

Waste code: U061
Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-37072
Amount (Lbs): 37072

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/17/1982
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 12/22/1980
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

US ENG CONTROLS:

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 09/30/2015
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

EPA ID: CAD008242711

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 09/30/2015
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: Not reported
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Aeration
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Containment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Natural Attenuation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Precipitation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Fish Tissue
Engineering Control: Monitored Natural Attenuation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Sediment
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Sediment
Engineering Control: Monitored Natural Recovery
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Sediment
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Sediment
Engineering Control: Subaqueous Sediment Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 05
Contaminated Media : Surface Water
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Event Code Description: Not reported

US INST CONTROL:

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502
EPA Region: 09

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

County: LOS ANGELES
Event Code: Not reported
Inst. Control: Access Restriction
Actual Date: 09/30/2015
Comple. Date: Not reported
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Deed Restriction
Actual Date: 03/31/1999
Comple. Date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Drilling Restriction
Actual Date: 03/31/1999
Comple. Date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Notices to State Regulators Before Changes in Land Ownership

Map ID
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Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Actual Date: 03/31/1999
Compleat. Date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Water Supply Use Restriction
Actual Date: 03/31/1999
Compleat. Date: 03/30/1999
Operable Unit: 03
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

EPA ID: CAD008242711
Site ID: 0900993
Name: MONTROSE CHEMICAL CORP.
Action Name: RECORD OF DECISION
Address: 20201 S NORMANDIE AVE
TORRANCE, CA 90502

EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Fishing Restriction
Actual Date: 09/30/2009
Compleat. Date: 09/30/2009
Operable Unit: 05
Contaminated Media : Sediment
Contact Name : Not reported
Contact Phone and Ext :Not reported
Event Code Description:Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:

PRP name: ATKEMIX THIRTY-SEVEN, INC.
ATKEMIX THIRTY-SEVEN, INC.
ATKEMIX THIRTY-SEVEN, INC.
ATKEMIX THIRTY-SEVEN, INC.
AVENTIS CROPS SCIENCE USA, INC
AVENTIS CROPS SCIENCE USA, INC
AVENTIS CROPS SCIENCE USA, INC
AVENTIS CROPS SCIENCE USA, INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

CBS CORPORATION
CHRIS-CRAFT CORPORATION OF CALIFORNIA
CHRIS-CRAFT CORPORATION OF CALIFORNIA
CHRIS-CRAFT CORPORATION OF CALIFORNIA
CHRIS-CRAFT CORPORATION OF CALIFORNIA
CITY OF LOS ANGELES
CITY OF LOS ANGELES
ECOLOGY CONTROL INDUSTRIES, INC.
ICI AMERICAN HOLDINGS, INC.
ICI AMERICAN HOLDINGS, INC.
ICI AMERICAN HOLDINGS, INC.
IMPERIAL CHEMICAL INDUSTRIES PLC
IMPERIAL CHEMICAL INDUSTRIES PLC
IMPERIAL CHEMICAL INDUSTRIES PLC
JCI JONES CHEMICALS INC
MONTROSE CHEMICAL CORP.
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MONTROSE CHEMICAL CORP.
MONTROSE CHEMICAL CORP.
MONTROSE CHEMICAL CORP. OF CALIFORNIA, INC.
POTLATCH CORPORATION
RHODIA INC
RHODIA INC
RONALD FLURY
SHELL OIL COMPANY
SIMPSON INVESTMENT CO
SIMPSON PAPER COMPANY
STAUFFER MANAGEMENT COMPANY
STAUFFER MANAGEMENT COMPANY
STAUFFER MANAGEMENT COMPANY
STAUFFER MANAGEMENT COMPANY
ZENECA HOLDINGS INC
ZENECA HOLDINGS INC
ZENECA HOLDINGS INC

ICIS:

Enforcement Action ID: 09-2016-2507
FRS ID: 110002630608
Action Name: MONTROSE - ECOLOGY CONTROL INDUSTRIES UAO
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2016-2507
FRS ID: 110002630608
Action Name: MONTROSE - ECOLOGY CONTROL INDUSTRIES UAO
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: CERCLIS

Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: CAD008242711
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2010-2518
FRS ID: 110002630608
Action Name: Montrose/Del Amo Superfund Sites Dual Site Groundwater OU RD/RA
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
Program System Acronym: CERCLIS

Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: CAD008242711
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2008-2530
FRS ID: 110002630608
Action Name: Montrose Chemical AOC with JCI Jones for RI/FS
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: LOS ANGELES
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 122/104
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: CAD008242711
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2008-2501
FRS ID: 110002630608
Action Name: Montrose Chemical - Shell Oil
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: CAD008242711
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2008-0009
FRS ID: 110002630608
Action Name: Montrose Cemical - Kenwood
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: CERCLIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: Not reported
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: CAD008242711
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2006-0133
FRS ID: 110002630608
Action Name: Montrose Chemical - Normandie (#2)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2006-0025
FRS ID: 110002630608
Action Name: Montrose Chemical - Normandie (#1)
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-2003-0114
FRS ID: 110002630608
Action Name: Montrose Chemical / Del Amo (#2)
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Enforcement Action ID: 09-2003-0060
FRS ID: 110002630608
Action Name: Montrose Chemical / Del Amo (#1)
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-1998-0169
FRS ID: 110002630608
Action Name: MONTROSE - CBS/POTLATCH/SIMPSON
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-1997-0048
FRS ID: 110002630608
Action Name: MONTROSE - LOS ANGELES COUNTY SANITATION DISTRICT
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-1997-0009
FRS ID: 110002630608
Action Name: MONTROSE - UAO
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 106
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Enforcement Action ID: 09-1990-0012
FRS ID: 110002630608
Action Name: MONTROSE CHEMICAL CORPORATION OF CALIFORNIA
Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Facility Address: 20201 SOUTH NORMANDIE AVENUE
TORRANCE, CA 90502

Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 2879
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.84833
Longitude in Decimal Degrees: -118.2983
Permit Type Desc: Not reported
Program System Acronym: 10849
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
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Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
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Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Fed Facility:	No
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Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Fed Facility: No
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SIC Code: 2869

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Tribal Indicator: N
Fed Facility: No

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
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SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
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SIC Code:	2869
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Tribal Indicator:	N
Fed Facility:	No
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SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Fed Facility:	No
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SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
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Fed Facility:	No
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SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Fed Facility: No
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
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Fed Facility: No
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191

Map ID
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Database(s)

EDR ID Number
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MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)

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Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Address:	20201 SOUTH NORMANDIE AVENUE

Map ID
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Database(s)

EDR ID Number
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MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Tribal Indicator:	N

Map ID
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Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
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Tribal Indicator:	N
Fed Facility:	No

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Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
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Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported

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Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Fed Facility: No
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2869
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	2879
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
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Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
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Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	5191
Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name:	MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address:	20201 SOUTH NORMANDIE AVENUE
Tribal Indicator:	N

Map ID
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Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Fed Facility: No
NAIC Code: Not reported
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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Map ID
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Site

Database(s)

EDR ID Number
EPA ID Number

MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
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MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE) (Continued)

1000420366

SIC Code: 5191

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
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Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2869

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 2879

Facility Name: MONTROSE CHEMICAL (MONTROSE SUPERFUND SITE)
Address: 20201 SOUTH NORMANDIE AVENUE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5191

CONSENT:

EPA ID: CAD008242711
Site ID: Not reported
Case Title: Not reported
Court Num: Not reported
District: Not reported
Entered Date: Not reported

Full-text of the consent decree for this site issued by the United States District Court is available from EDR. Contact your EDR Account Executive.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

B19
NW
< 1/8
0.013 mi.
70 ft.

23300 S ALAMEDA ST
CARSON, CA
Site 1 of 2 in cluster B

AST **A100344785**
N/A

Relative:
Higher

AST:

Actual:
22 ft.

Certified Unified Program Agencies: Los Angeles County
 Owner: AIR PRODUCTS CARSON HYDROGEN
 Total Gallons: 3702
 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

C20
South
< 1/8
0.034 mi.
181 ft.

ARCO (CARSON TERMINAL)
2149 SEPULVEDA
CARSON, CA 90810
Site 1 of 6 in cluster C

LUST **S101295817**
HIST CORTESE **N/A**

Relative:
Higher

LUST REG 4:

Actual:
42 ft.

Region: 4
 Regional Board: 04
 County: Los Angeles
 Facility Id: R-13337
 Status: Pollution Characterization
 Substance: Gasoline
 Substance Quantity: Not reported
 Local Case No: Not reported
 Case Type: Groundwater
 Abatement Method Used at the Site: Not reported
 Global ID: T0603705191
 W Global ID: Not reported
 Staff: SLC
 Local Agency: 19000
 Cross Street: Not reported
 Enforcement Type: Not reported
 Date Leak Discovered: 6/20/1989
 Date Leak First Reported: 7/7/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO (CARSON TERMINAL) (Continued)

S101295817

Date Leak Record Entered: 7/26/1989
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 7/24/1992
Date the Case was Closed: Not reported
How Leak Discovered: Inventory Control
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: BILLINGS, PATRICK
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 7188.9290151616385464104574193
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 3/10/1989
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: ARCO
RP Address: 8600 S GARFIELD AVE, SOUTH GATE, CA 90280
Program: LUST
Lat/Long: 33.8069106 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: TWO UNDERGROUND TANKS WERE INVESTIGATED. OLD CASE #080289-04. THIS IS A SLIC SITE BEING HANDLED BY PAUL CHO

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-13337

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

C21 South < 1/8 0.034 mi. 181 ft.	ARCO - CARSON TERMINAL 2149 SEPULVEDA CARSON, CA 90810 Site 2 of 6 in cluster C	CPS-SLIC	S104404955 N/A
Relative: Higher	SLIC REG 4: Region: 4		
Actual: 42 ft.	Facility Status: Inactive SLIC: 0225 Substance: TPH Staff: PC		

B22 NW < 1/8 0.043 mi. 225 ft.	CARSON LIQUID HYDROGEN PLANT 23320 SOUTH ALAMEDA STREET CARSON ,CA, CA 90810 Site 2 of 2 in cluster B	WMUDS/SWAT	S104156408 N/A
Relative: Higher	WMUDS/SWAT: Edit Date: Not reported		
Actual: 22 ft.	Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who 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 dairy waste ponds. Primary Waste: MISCEL Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category. Secondary Waste: Not reported Secondary Waste Type: Not reported Base Meridian: Not reported NPID: HH0003085 Tonnage: 0 Regional Board ID: Not reported Municipal Solid Waste: False Superorder: False Open To Public: False Waste List: False Agency Type: Private Agency Name: 87 AIR PRODUCTS & CHEMICALS Agency Department: Not reported Agency Address: 23320 S ALAMEDA ST Agency City,St,Zip: LONG BEACH ,CA 90810 Agency Contact: Not reported Agency Telephone: 2138305231 Land Owner Name: Not reported Land Owner Address: Not reported Land Owner City,St,Zip: Not reported Land Owner Contact: Not reported Land Owner Phone: Not reported Region: 4 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		

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CARSON LIQUID HYDROGEN PLANT (Continued)

S104156408

pumping.
 Facility Description: Not reported
 Facility Telephone: Not reported
 SWAT Facility Name: Not reported
 Primary SIC: 2813
 Secondary SIC: Not reported
 Comments: Not reported
 Last Facility Editors: Not reported
 Waste Discharge System: True
 Solid Waste Assessment Test Program: False
 Toxic Pits Cleanup Act Program: False
 Resource Conservation Recovery Act: True
 Department of Defence: False
 Solid Waste Assessment Test Program: Not reported
 Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.
 Sub Chapter 15: False
 Regional Board Project Officer: HK
 Number of WMUDS at Facility: 1
 Section Range: Not reported
 RCRA Facility: Yes
 Waste Discharge Requirements: H
 Self-Monitoring Rept. Frequency: Quarterly Submittal
 Waste Discharge System ID: 4B192003002
 Solid Waste Information ID: Not reported

C23
South
< 1/8
0.051 mi.
269 ft.

2149 E SEPULVEDA BLVD
CARSON, CA

Site 3 of 6 in cluster C

AST A100344745
N/A

Relative:
Higher
Actual:
45 ft.

AST:
 Certified Unified Program Agencies: Los Angeles County
 Owner: ARCO CARSON PRODUCTS TERMINAL
 Total Gallons: 3704
 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

A100344745

Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: Not reported

C24
South
< 1/8
0.051 mi.
269 ft.

CARSON PRODUCTS TERMINAL
2149 E SEPULVEDA BLVD
CARSON, CA 90810

RCRA-SQG 1000153710
US AIRS CAD000632588

Site 4 of 6 in cluster C

Relative:
Higher

RCRA-SQG:

Date form received by agency: 12/09/2013

Actual:
45 ft.

Facility name: CARSON PRODUCTS TERMINAL
Facility address: 2149 E SEPULVEDA BLVD
CARSON, CA 90810
EPA ID: CAD000632588
Mailing address: 8601 S GARFIELD AVE
SOUTH GATE, CA 90280
Contact: RUTHANNE M WALKER
Contact address: 8601 S GARFIELD AVE
SOUTH GATE, CA 90280
Contact country: US
Contact telephone: 562-806-4015
Contact email: RUTHANNE.M.WALKER@TSOCORP.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: TESORO LOGISTICS OPS LLC
Owner/operator address: 19100 RIDGEWOOD PKWY
SAN ANTONIO, TX 78259
Owner/operator country: US
Owner/operator telephone: 210-626-6000
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: 12/06/2013
Owner/Op end date: Not reported

Owner/operator name: TESORO LOGISTICS OPS LLC
Owner/operator address: Not reported
TX
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Owner/Operator Type: Operator
Owner/Op start date: 12/06/2013
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

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

Historical Generators:

Date form received by agency: 07/24/2013
Site name: CARSON MARKETING TERMINAL
Classification: Small Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

- . Waste code: 135
 - . Waste name: Unspecified aqueous solution

 - . Waste code: 181
 - . Waste name: Other inorganic solid waste

 - . Waste code: 352
 - . Waste name: Other organic solids

 - . Waste code: 611
 - . Waste name: Contaminated soil from site clean-ups

 - . Waste code: D001
 - . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

 - . Waste code: D004
 - . Waste name: ARSENIC

 - . Waste code: D008
 - . Waste name: LEAD

 - . Waste code: D018
 - . Waste name: BENZENE
- Date form received by agency: 06/05/2013
Site name: CARSON MARKETING TERMINAL
Classification: Small Quantity Generator
- . Waste code: 135
 - . Waste name: Unspecified aqueous solution

 - . Waste code: 181
 - . Waste name: Other inorganic solid waste

 - . Waste code: 352
 - . Waste name: Other organic solids

 - . Waste code: 611
 - . Waste name: Contaminated soil from site clean-ups

 - . Waste code: D001
 - . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

 - . Waste code: D004
 - . Waste name: ARSENIC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 09/01/1996
Site name: ATLANTIC RICHFIELD CO CARSON TERM
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: ATLANTIC RICHFIELD CO CARSON TERM
Classification: Small Quantity Generator

Date form received by agency: 02/29/1996
Site name: ARCO PRODUCTS COMPANY-CARSON TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 03/25/1994
Site name: ARCO PROD CO CARSON TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: ARCO PETROLEUM PRODUCTS
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: ATLANTIC RICHFIELD CO CARSON TERM
Classification: Not a generator, verified

Violation Status: No violations found

US AIRS (AFS):

Envid: 1000153710
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
D and B Number: Not reported
Facility Site Name: TESORO REFINING AND MARKETING CO LLC CARSON
Primary SIC Code: 5171
NAICS Code: 454312
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-25 00:00:00
Activity Status Date: 2014-11-25 13:35:29
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-14 00:00:00
Activity Status Date: 2014-11-25 13:32:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-15 00:00:00
Activity Status Date: 2014-11-25 13:39:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-02-25 00:00:00
Activity Status Date: 2015-10-14 12:20:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-26 00:00:00
Activity Status Date: 2015-10-14 12:18:47
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-09-02 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status Date: 2015-10-14 12:20:53
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-06-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-04-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-05-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-20 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-11-05 00:00:00
Activity Status Date: 2014-11-25 13:37:34
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-25 00:00:00
Activity Status Date: 2014-11-25 13:35:29
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-14 00:00:00
Activity Status Date: 2014-11-25 13:32:48
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-15 00:00:00
Activity Status Date: 2014-11-25 13:39:28
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-25 00:00:00
Activity Status Date: 2015-10-14 12:20:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-26 00:00:00
Activity Status Date: 2015-10-14 12:18:47
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-02 00:00:00
Activity Status Date: 2015-10-14 12:20:53
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-06-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-04-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-25 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-04-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-05-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CI262
Facility Registry ID: 110000476155
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CARSON PRODUCTS TERMINAL (Continued)

1000153710

Programmatic ID: AIR CASCA00006037CI262
 Facility Registry ID: 110000476155
 Air Operating Status Code: OPR
 Default Air Classification Code: MAJ
 Air Program: Title V Permits
 Activity Date: 2013-03-20 00:00:00
 Activity Status Date: Not reported
 Activity Group: Compliance Monitoring
 Activity Type: Inspection/Evaluation
 Activity Status: Not reported

Region Code: 09
 Programmatic ID: AIR CASCA00006037CI262
 Facility Registry ID: 110000476155
 Air Operating Status Code: OPR
 Default Air Classification Code: MAJ
 Air Program: Title V Permits
 Activity Date: 2013-03-21 00:00:00
 Activity Status Date: Not reported
 Activity Group: Compliance Monitoring
 Activity Type: Inspection/Evaluation
 Activity Status: Not reported

Region Code: 09
 Programmatic ID: AIR CASCA00006037CI262
 Facility Registry ID: 110000476155
 Air Operating Status Code: OPR
 Default Air Classification Code: MAJ
 Air Program: Title V Permits
 Activity Date: 2016-01-27 00:00:00
 Activity Status Date: Not reported
 Activity Group: Compliance Monitoring
 Activity Type: Inspection/Evaluation
 Activity Status: Not reported

C25
South
< 1/8
0.051 mi.
269 ft.
Relative:
Higher
Actual:
45 ft.

ARCO TERMINAL
2149 E SEPULVEDA AVE
CARSON, CA 90745
Site 5 of 6 in cluster C

SWEEPS UST **S101582965**
CA FID UST **N/A**
EMI
HAZNET
LOS ANGELES CO. HMS
NPDES
WDS
CIWQS

SWEEPS UST:
 Status: Active
 Comp Number: 13337
 Number: 1
 Board Of Equalization: Not reported
 Referral Date: 06-04-90
 Action Date: 06-04-90
 Created Date: 06-30-89
 Owner Tank Id: 112
 SWRCB Tank Id: 19-000-013337-000112
 Tank Status: A
 Capacity: 4000
 Active Date: 06-04-90

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 1

CA FID UST:

Facility ID: 19002056
Regulated By: UTNKA
Regulated ID: 081782583
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2138064190
Mail To: Not reported
Mailing Address: 1055 W 7TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CARSON 90745
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 176370
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8.577692081
Reactive Organic Gases Tons/Yr: 6.74335
Carbon Monoxide Emissions Tons/Yr: 4.62289
NOX - Oxides of Nitrogen Tons/Yr: 0.61995
SOX - Oxides of Sulphur Tons/Yr: 3e-005
Particulate Matter Tons/Yr: 0.00062
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.00056036

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 176370
Air District Name: SC
SIC Code: 4729
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8.1294624908
Reactive Organic Gases Tons/Yr: 7.92448
Carbon Monoxide Emissions Tons/Yr: 7.3599
NOX - Oxides of Nitrogen Tons/Yr: 0.77222
SOX - Oxides of Sulphur Tons/Yr: 0.00123

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

Particulate Matter Tons/Yr: 0.01744
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.0167424

HAZNET:

envid: S101582965
Year: 2016
GEPAID: CAC002886336
Contact: ANDERSON LIM
Telephone: 3105169209
Mailing Name: Not reported
Mailing Address: 572 W 184TH ST
Mailing City,St,Zip: GARDENA, CA 90248
Gen County: Los Angeles
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Unspecified organic liquid mixture
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Tons: 0.2
Cat Decode: Unspecified organic liquid mixture
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery
(H010-H129) Or (H131-H135)
Facility County: Los Angeles

LOS ANGELES CO. HMS:

Region: LA
Permit Category: T
Facility Id: 013069-013337
Facility Type: 0
Facility Status: Closed
Area: 22
Permit Number: 00005020T
Permit Status: Removed

Region: LA
Permit Category: T
Facility Id: 013069-013337
Facility Type: 0
Facility Status: Closed
Area: 22
Permit Number: 0000T5020
Permit Status: Closed

Region: LA
Permit Category: S
Facility Id: 013069-047318
Facility Type: S6
Facility Status: Closed
Area: 22
Permit Number: CGI002582
Permit Status: Closed

NPDES:

Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 4 19I024574
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: 02/09/2015
Operator Name: Tersoro Logistics Operations LLC
Operator Address: 8601 South Garfield Avenue
Operator City: South Gate
Operator State: California
Operator Zip: 90280

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 4
Regulatory Measure ID: 442595
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 4 19I024574
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: 12/19/2014
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 11/26/2013
Processed Date: 11/26/2013
Status: Terminated
Status Date: 02/09/2015
Place Size: 179344
Place Size Unit: SqFt
Contact: Ruthanne Walker
Contact Title: Not reported
Contact Phone: 562-806-4105
Contact Phone Ext: Not reported
Contact Email: Ruthanne.M.Walker@tsocorp.com
Operator Name: Tersoro Logistics Operations LLC
Operator Address: 8601 South Garfield Avenue
Operator City: South Gate

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

Operator State:	California
Operator Zip:	90280
Operator Contact:	Benjamin J Martinez
Operator Contact Title:	Director SW Terminal Fleet Operations
Operator Contact Phone:	562-806-4184
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Benjamin.J.Martinez@tsocorp.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:	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 Commercial 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
Receiving Water Name:	Dominguez Channel
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	5171-Petroleum Bulk Stations and Terminals
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
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:	4 19I024233
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

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: 08/04/2014
Operator Name: Tesoro Refining and Marketing Company LLC
Operator Address: 19100 Ridgewood Parkway
Operator City: San Antonio
Operator State: Texas
Operator Zip: 78259

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 4
Regulatory Measure ID: 437379
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 4 19I024233
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: 11/26/2013
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 05/03/2013
Processed Date: 05/03/2013
Status: Terminated
Status Date: 08/04/2014
Place Size: 179344
Place Size Unit: SqFt
Contact: Daniel Romasko
Contact Title: Not reported
Contact Phone: 210-626-6000
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Tesoro Refining and Marketing Company LLC
Operator Address: 19100 Ridgewood Parkway
Operator City: San Antonio
Operator State: Texas
Operator Zip: 78259
Operator Contact: Daniel Romasko
Operator Contact Title: Not reported
Operator Contact Phone: 210-626-6000
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Private Business
Developer: Not reported
Developer Address: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ARCO TERMINAL (Continued)

S101582965

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:	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 Commercial 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
Receiving Water Name:	Dominguez Channel
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	5171-Petroleum Bulk Stations and Terminals
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Facility ID:	4 19I002582
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
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:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	ARCO SERVICE STATION
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

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 those who 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 dairy waste ponds.

CIWQS:

Agency: Tersoro Logistics Operations LLC
Agency Address: 8601 South Garfield Avenue, South Gate, CA 90280
Place/Project Type: Industrial - Petroleum Bulk Stations and Terminals
SIC/NAICS: 5171
Region: 4
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 4 19I024574
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 11/26/2013
Termination Date: 12/19/2014
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 1
Violations within 5 years: 0
Latitude: 33.8091
Longitude: -118.2312

Agency: Tesoro Refining and Marketing Company LLC
Agency Address: 19100 Ridgewood Parkway, San Antonio, TX 78259
Place/Project Type: Industrial - Petroleum Bulk Stations and Terminals
SIC/NAICS: 5171
Region: 4
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 4 19I024233
NPDES Number: CAS000001
Adoption Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO TERMINAL (Continued)

S101582965

Effective Date: 05/03/2013
Termination Date: 11/26/2013
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.8091
Longitude: -118.2312

Agency: BP Product North America Inc
Agency Address: 8601 Garfield Ave, South Gate, CA 90280
Place/Project Type: Industrial - Petroleum Bulk Stations and Terminals
SIC/NAICS: 5171
Region: 4
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 4 19I002582
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 04/01/1992
Termination Date: 06/01/2013
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.808187
Longitude: -118.268649

C26
South
< 1/8
0.051 mi.
269 ft.

ARCO CARSON PRODUCTS TERMINAL
2149 E SEPULVEDA BLVD
CARSON, CA 90810
Site 6 of 6 in cluster C

AST A100417199
N/A

Relative:
Higher
Actual:
45 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: TESORO LOGISTICS OPERATIONS LLC
Total Gallons: Not reported
CERSID: 10296232
Facility ID: LACoFA0024472
Business Name: ARCO CARSON PRODUCTS TERMINAL
Phone: (562) 806-4123
Fax: (562) 806-4111
Mailing Address: 8601 S GARFIELD AVE
Mailing Address City: SOUTH GATE
Mailing Address State: CA
Mailing Address Zip Code: 90280
Operator Name: RUTHANNE WALKER
Operator Phone: (562) 806-4105
Owner Phone: (562) 806-4105

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO CARSON PRODUCTS TERMINAL (Continued)

A100417199

Owner Mail Address: 8601 S GARFIELD AVE
Owner State: CA
Owner Zip Code: 90280
Owner Country: United States
Property Owner Name: TESORO LOGISITICS OPERATIONS LLC
Property Owner Phone: Not reported
Property Owner Mailing Address: 2149 E SEPULVEDA BLVD
Property Owner City: CARSON
Property Owner Stat : CA
Property Owner Zip Code: 90810
Property Owner Country: United States
EPAID: CAD000632588

D27
SSW
< 1/8
0.113 mi.
595 ft.

WATSON CARBON & CHEMICAL COMPANY
2021 EAST SEPULVEDA BOULEVARD
LONG BEACH, CA 90810

ENVIROSTOR **S101480635**
N/A

Site 1 of 2 in cluster D

Relative:
Higher
Actual:
29 ft.

ENVIROSTOR:
Facility ID: 19280751
Status: Refer: Other Agency
Status Date: 06/30/1985
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: * Site Char & Assess Grant (CERCLA 104)
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.80694
Longitude: -118.2316
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * UNSPECIFIED AQUEOUS SOLUTION
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ARCO REFINERY
Alias Type: Alternate Name
Alias Name: INDUSTRIAL POLYCHEMICAL
Alias Type: Alternate Name
Alias Name: MARTIN MARIETTA INC
Alias Type: Alternate Name
Alias Name: SUBSIDIARY OF HARVEY ALUMINUM
Alias Type: Alternate Name
Alias Name: CAD067748285
Alias Type: EPA Identification Number
Alias Name: 19280751
Alias Type: Envirostor ID Number

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WATSON CARBON & CHEMICAL COMPANY (Continued)

S101480635

Completed Info:

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Preliminary Assessment Report
 Completed Date: 06/30/1985
 Comments: PRELIM ASSESS DONE CERCLA 104

Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: * Discovery
 Completed Date: 08/03/1982
 Comments: FACILITY IDENTIFIED ID'D FROM PAC TEL BUS DIR 1971 NO CURRENT TELEPHONE LISTING

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

**28
 NNW
 < 1/8
 0.114 mi.
 600 ft.**

**TEXACO
 232000 S. ALAMEDA
 CARSON, CA**

**Notify 65 S100178415
 N/A**

**Relative:
 Higher
 Actual:
 23 ft.**

NOTIFY 65:
 Date Reported: Not reported
 Staff Initials: Not reported
 Board File Number: Not reported
 Facility Type: Not reported
 Discharge Date: Not reported
 Issue Date: Not reported
 Incident Description: Not reported

**E29
 NNW
 1/8-1/4
 0.130 mi.
 684 ft.**

**TESORO REFINING & MARKETING COMPANY-SULFUR RECOVER
 23208 S ALAMEDA ST
 CARSON, CA 90810
 Site 1 of 5 in cluster E**

**AST U001566261
 HIST UST N/A
 CHMIRS
 EMI
 HAZNET
 HWP**

**Relative:
 Higher
 Actual:
 23 ft.**

AST:
 Certified Unified Program Agencies: Not reported
 Owner: TESORO REFINING & MARKETING COMPANY LLC
 Total Gallons: Not reported
 CERSID: 10263403
 Facility ID: LACoFA0002133
 Business Name: TESORO REFINING AND MARKETING CO
 Phone: 310 847-5209
 Fax: Not reported
 Mailing Address: 2101 E PACIFIC COAST HWY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

Mailing Address City: WILMINGTON
Mailing Address State: CA
Mailing Address Zip Code: 90744
Operator Name: DAVID L. FOSTER
Operator Phone: 310 847-5209
Owner Phone: 310 522 6000
Owner Mail Address: 2101 EAST PACIFIC COAST HWY
Owner State: CA
Owner Zip Code: 90744
Owner Country: United States
Property Owner Name: Tesoro Refining & Marketing Company LLC
Property Owner Phone: 310 522 6000
Property Owner Mailing Address: 2101 East Pacific Coast Hwy
Property Owner City: Wilmington
Property Owner Stat : CA
Property Owner Zip Code: 90744
Property Owner Country: United States
EPAID: CAT000646331

HIST UST:

File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000066990
Facility Type: Other
Other Type: SULFUR RECOVERY
Contact Name: D. E. REYNOLDS
Telephone: 2138358261
Owner Name: TEXACO REFINING & MARKETING IN
Owner Address: 1111 RUSK AVENUE
Owner City,St,Zip: HOUSTON, TX 77002
Total Tanks: 0001

Tank Num: 001
Container Num: T-909
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: 2
Container Construction Thickness: X
Leak Detection: Stock Inventor

CHMIRS:

OES Incident Number: 16-5200
OES notification: 08/26/2016
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

More Than Two Substances Involved?:	Not reported
Resp Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	n/a
Spill Site:	Refinery
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Unknown
Other:	Not reported
Date/Time:	1300
Year:	2016
Agency:	Tesoro
Incident Date:	08/26/2016
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	No
Site Type:	n/a
E Date:	Not reported
Substance:	SO2, H2S and Steam
Quantity Released:	unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states: Sulfur tank at sulfur recovery plant compromised resulting in the release of an

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

unknown amount of SO2, H2S and Steam to the air.
Release is not contained and is still releasing.
There is visible steam coming from the facility.
Tesoro is worki

EMI:

Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 8
Carbon Monoxide Emissions Tons/Yr: 134
NOX - Oxides of Nitrogen Tons/Yr: 156
SOX - Oxides of Sulphur Tons/Yr: 26
Particulate Matter Tons/Yr: 13
Part. Matter 10 Micrometers and Smlr Tons/Yr:13

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 15
Reactive Organic Gases Tons/Yr: 10
Carbon Monoxide Emissions Tons/Yr: 127
NOX - Oxides of Nitrogen Tons/Yr: 109
SOX - Oxides of Sulphur Tons/Yr: 156
Particulate Matter Tons/Yr: 12
Part. Matter 10 Micrometers and Smlr Tons/Yr:12

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 8
Carbon Monoxide Emissions Tons/Yr: 134
NOX - Oxides of Nitrogen Tons/Yr: 85
SOX - Oxides of Sulphur Tons/Yr: 9
Particulate Matter Tons/Yr: 5
Part. Matter 10 Micrometers and Smlr Tons/Yr:5

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 26
Reactive Organic Gases Tons/Yr: 12
Carbon Monoxide Emissions Tons/Yr: 136
NOX - Oxides of Nitrogen Tons/Yr: 32
SOX - Oxides of Sulphur Tons/Yr: 70
Particulate Matter Tons/Yr: 9
Part. Matter 10 Micrometers and Smlr Tons/Yr:8

Year: 1997
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 7
Carbon Monoxide Emissions Tons/Yr: 150
NOX - Oxides of Nitrogen Tons/Yr: 29
SOX - Oxides of Sulphur Tons/Yr: 27
Particulate Matter Tons/Yr: 5
Part. Matter 10 Micrometers and Smlr Tons/Yr:4

Year: 1998
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 6
Carbon Monoxide Emissions Tons/Yr: 150
NOX - Oxides of Nitrogen Tons/Yr: 29
SOX - Oxides of Sulphur Tons/Yr: 27
Particulate Matter Tons/Yr: 5
Part. Matter 10 Micrometers and Smlr Tons/Yr:4

Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 800222
Air District Name: SC
SIC Code: 2819

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 7
Carbon Monoxide Emissions Tons/Yr: 150
NOX - Oxides of Nitrogen Tons/Yr: 29
SOX - Oxides of Sulphur Tons/Yr: 27
Particulate Matter Tons/Yr: 5
Part. Matter 10 Micrometers and Smlr Tons/Yr:4

Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 101.5371111819828097
Reactive Organic Gases Tons/Yr: 30.117
Carbon Monoxide Emissions Tons/Yr: 130.371
NOX - Oxides of Nitrogen Tons/Yr: 90.279
SOX - Oxides of Sulphur Tons/Yr: 56.86
Particulate Matter Tons/Yr: 33.81
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.7962

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 101.3625385979579172
Reactive Organic Gases Tons/Yr: 30.117
Carbon Monoxide Emissions Tons/Yr: 130.371
NOX - Oxides of Nitrogen Tons/Yr: 90.279
SOX - Oxides of Sulphur Tons/Yr: 56.86
Particulate Matter Tons/Yr: 33.81
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.80061

Year: 2008
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 110.6766760980480583
Reactive Organic Gases Tons/Yr: 30.3035324727
Carbon Monoxide Emissions Tons/Yr: 155.36

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

NOX - Oxides of Nitrogen Tons/Yr: 76.46
SOX - Oxides of Sulphur Tons/Yr: 22.39
Particulate Matter Tons/Yr: 36
Part. Matter 10 Micrometers and Smlr Tons/Yr:33.9046

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 107.87706053478399
Reactive Organic Gases Tons/Yr: 29.793150472699999
Carbon Monoxide Emissions Tons/Yr: 149.06
NOX - Oxides of Nitrogen Tons/Yr: 65.260000000000005
SOX - Oxides of Sulphur Tons/Yr: 14.16
Particulate Matter Tons/Yr: 35.200000000000003
Part. Matter 10 Micrometers and Smlr Tons/Yr:33.08959999999997

Year: 2010
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 39.395247697043899
Reactive Organic Gases Tons/Yr: 30.692790160703598
Carbon Monoxide Emissions Tons/Yr: 162.11044000000001
NOX - Oxides of Nitrogen Tons/Yr: 60.485320000000002
SOX - Oxides of Sulphur Tons/Yr: 10.16896
Particulate Matter Tons/Yr: 36.652459999999998
Part. Matter 10 Micrometers and Smlr Tons/Yr:32.823329000000001

Year: 2011
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 38.902916464
Reactive Organic Gases Tons/Yr: 30.45007492
Carbon Monoxide Emissions Tons/Yr: 152.62146
NOX - Oxides of Nitrogen Tons/Yr: 49.79992
SOX - Oxides of Sulphur Tons/Yr: 3.50159
Particulate Matter Tons/Yr: 34.26475
Part. Matter 10 Micrometers and Smlr Tons/Yr:30.582423

Year: 2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 155.85463638
Reactive Organic Gases Tons/Yr: 28.793952483
Carbon Monoxide Emissions Tons/Yr: 148.98806
NOX - Oxides of Nitrogen Tons/Yr: 44.45245
SOX - Oxides of Sulphur Tons/Yr: 9.31386
Particulate Matter Tons/Yr: 32.81598
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.830351

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 156.10957063
Reactive Organic Gases Tons/Yr: 28.739699593
Carbon Monoxide Emissions Tons/Yr: 144.7298
NOX - Oxides of Nitrogen Tons/Yr: 51.5297
SOX - Oxides of Sulphur Tons/Yr: 6.93559
Particulate Matter Tons/Yr: 32.40033
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.421628

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 36.306367741
Reactive Organic Gases Tons/Yr: 29.95176949
Carbon Monoxide Emissions Tons/Yr: 147.51059
NOX - Oxides of Nitrogen Tons/Yr: 35.68702
SOX - Oxides of Sulphur Tons/Yr: 3.88646
Particulate Matter Tons/Yr: 33.56866
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.48817196

Year: 2015
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 42.720301994
Reactive Organic Gases Tons/Yr: 36.993096026
Carbon Monoxide Emissions Tons/Yr: 144.46983223
NOX - Oxides of Nitrogen Tons/Yr: 38.2268925
SOX - Oxides of Sulphur Tons/Yr: 8.462473785
Particulate Matter Tons/Yr: 30.355429483
Part. Matter 10 Micrometers and Smlr Tons/Yr:28.39421944

Year: 2016
County Code: 19
Air Basin: SC
Facility ID: 151798
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 49.351987178
Reactive Organic Gases Tons/Yr: 38.28468181
Carbon Monoxide Emissions Tons/Yr: 158.54
NOX - Oxides of Nitrogen Tons/Yr: 43.19
SOX - Oxides of Sulphur Tons/Yr: 6.538747
Particulate Matter Tons/Yr: 32.940424
Part. Matter 10 Micrometers and Smlr Tons/Yr:30.877653198

HAZNET:

envid: U001566261
Year: 2016
GEPAID: CAC002858863
Contact: STEPHEN D. COMLEY
Telephone: 5627282265
Mailing Name: Not reported
Mailing Address: 5905 N PARAMOUNT BLVD
Mailing City,St,Zip: LONG BEACH, CA 908053709
Gen County: Los Angeles
TSD EPA ID: AZD081705402
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.475
Cat Decode: Other organic solids
Method Decode: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Los Angeles

HWP:

EPA Id: CAT000646331
Cleanup Status: CLOSED
Latitude: 33.81398
Longitude: -118.2311
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

U001566261

Supervisor: Not reported
Site Code: N/A
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/01/1980

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 08/03/1984

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 11/06/1985

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 02/23/1989

Closure:

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 12/05/1989

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Unit Names: TANKSTR1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 03/06/1990

Alias:

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000746667

EPA Id: CAT000646331
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: N/A

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

E30 EQUILON LA CARSON SULFUR PLANT
NNW 23208 S ALAMEDA ST
1/8-1/4 CARSON, CA 90810
0.130 mi.
684 ft. Site 2 of 5 in cluster E

HIST UST U002277760
EMI N/A

Relative:
Higher
Actual:
23 ft.

HIST UST:
 File Number: 00028A2D
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028A2D.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:

EMI:

Year: 1999
 County Code: 19
 Air Basin: SC
 Facility ID: 117247
 Air District Name: SC
 SIC Code: 2819
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 14
 Reactive Organic Gases Tons/Yr: 7
 Carbon Monoxide Emissions Tons/Yr: 167
 NOX - Oxides of Nitrogen Tons/Yr: 35
 SOX - Oxides of Sulphur Tons/Yr: 49
 Particulate Matter Tons/Yr: 7
 Part. Matter 10 Micrometers and Smlr Tons/Yr:7

Year: 2001
 County Code: 19
 Air Basin: SC
 Facility ID: 117247
 Air District Name: SC
 SIC Code: 2819
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Y
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 16

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EQUILON LA CARSON SULFUR PLANT (Continued)

U002277760

Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	116
NOX - Oxides of Nitrogen Tons/Yr:	65
SOX - Oxides of Sulphur Tons/Yr:	35
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers and Smlr Tons/Yr:	6
Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	117247
Air District Name:	SC
SIC Code:	2819
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	114
NOX - Oxides of Nitrogen Tons/Yr:	50
SOX - Oxides of Sulphur Tons/Yr:	27
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers and Smlr Tons/Yr:	4
Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	117247
Air District Name:	SC
SIC Code:	2819
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	114
NOX - Oxides of Nitrogen Tons/Yr:	50
SOX - Oxides of Sulphur Tons/Yr:	27
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers and Smlr Tons/Yr:	4
Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	117247
Air District Name:	SC
SIC Code:	2819
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.14526492
Reactive Organic Gases Tons/Yr:	3.43
Carbon Monoxide Emissions Tons/Yr:	113.7734
NOX - Oxides of Nitrogen Tons/Yr:	50.4421
SOX - Oxides of Sulphur Tons/Yr:	27.40262
Particulate Matter Tons/Yr:	4.477353
Part. Matter 10 Micrometers and Smlr Tons/Yr:	4.46

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EQUILON LA CARSON SULFUR PLANT (Continued)

U002277760

Year: 2005
County Code: 19
Air Basin: SC
Facility ID: 117247
Air District Name: SC
SIC Code: 2819
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 39.431765
Reactive Organic Gases Tons/Yr: 18.41584133
Carbon Monoxide Emissions Tons/Yr: 117.306
NOX - Oxides of Nitrogen Tons/Yr: 58.6088
SOX - Oxides of Sulphur Tons/Yr: 21.97711
Particulate Matter Tons/Yr: 32.9084
Part. Matter 10 Micrometers and Smlr Tons/Yr:31.7437098

**E31
NNW
1/8-1/4
0.130 mi.
684 ft.**

**23208 S ALAMEDA ST
CARSON, CA
Site 3 of 5 in cluster E**

**AST A100344782
N/A**

**Relative:
Higher
Actual:
23 ft.**

AST:
Certified Unified Program Agencies: Los Angeles County
Owner: TESORO REFINING AND MARKETING COMP
Total Gallons: 3702
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E32 **TESORO REFINING & MARKETING COMPANY-SULFUR RECOVER**
NNW **23208 S ALAMEDA ST**
1/8-1/4 **CARSON, CA 90810**
0.130 mi.
684 ft. **Site 4 of 5 in cluster E**

ENVIROSTOR **S100222939**
CHMIRS **N/A**

Relative:
Higher
Actual:
23 ft.

ENVIROSTOR:
Facility ID: 80001817
Status: Inactive - Action Required
Status Date: 05/31/2012
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Katherine Gould
Supervisor: Ju-Tseng Liu
Division Branch: Cleanup Chatsworth
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.81398
Longitude: -118.2311
APN: 7315020001
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 7315020001
Alias Type: APN
Alias Name: CAT000646331
Alias Type: EPA Identification Number
Alias Name: 110000746667
Alias Type: EPA (FRS #)
Alias Name: 80001817
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 03/25/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 04/15/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/04/2010
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

S100222939

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 08/30/1991
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

CHMIRS:

OES Incident Number: 991845
OES notification: Not reported
OES Date: Not reported
OES Time: Not reported
Date Completed: 04-SEP-88
Property Use: 600
Agency Id Number: 19110
Agency Incident Number: 0
Time Notified: 1324
Time Completed: 1430
Surrounding Area: Not reported
Estimated Temperature: 105
Property Management: Not reported
More Than Two Substances Involved?: N
Resp Agency 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
Company Name: Not reported
Reporting Officer Name/ID: HARRISON
Report Date: 04-SEP-88
Facility Telephone: 213 267-2485
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: Not reported
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 88-92

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TESORO REFINING & MARKETING COMPANY-SULFUR RECOVERY PLANT (Continued)

S100222939

Agency:	Not reported
Incident Date:	04-SEP-88
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	Not reported
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	N
Description:	Not reported

**E33
 NNW
 1/8-1/4
 0.130 mi.
 684 ft.**

**TESORO REFINING & MARKETING COMPANY LLC-- SULFUR R
 23208 S. ALAMEDA STREET
 CARSON, CA 90810
 Site 5 of 5 in cluster E**

**SEMS-ARCHIVE 1000144765
 CORRACTS CAT000646331
 RCRA-TSDF
 RCRA-LQG
 ICIS
 US AIRS**

**Relative:
 Higher
 Actual:
 23 ft.**

SEMS Archive:	
Site ID:	900240
EPA ID:	CAT000646331
Cong District:	31
FIPS Code:	6037
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Deferred to RCRA (Subtitle C)

SEMS Archive Detail:

Region:	9
Site ID:	900240
EPA ID:	CAT000646331
Site Name:	TEXACO USA DIV TEXACO INC
NPL:	N
FF:	N
OU:	0
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1996-01-23 00:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region: 9
Site ID: 900240
EPA ID: CAT000646331
Site Name: TEXACO USA DIV TEXACO INC
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1990-08-24 00:00:00
Finish Date: 1990-08-24 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 9
Site ID: 900240
EPA ID: CAT000646331
Site Name: TEXACO USA DIV TEXACO INC
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: Not reported
Finish Date: 1991-09-06 00:00:00
Qual: D
Current Action Lead: EPA Perf

Region: 9
Site ID: 900240
EPA ID: CAT000646331
Site Name: TEXACO USA DIV TEXACO INC
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1991-04-15 00:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 900240
EPA ID: CAT000646331
Site Name: TEXACO USA DIV TEXACO INC
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1991-04-15 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Qual: N
Current Action Lead: EPA Perf

CORRACTS:

EPA ID: CAT000646331
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920325
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 32518
Other Basic Inorganic Chemical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAT000646331
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910830
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 32518
Other Basic Inorganic Chemical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/12/2016
Facility name: TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY
Facility address: 23208 S. ALAMEDA STREET
CARSON, CA 90810
EPA ID: CAT000646331
Mailing address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744
Contact: ROBERT J RIORDAN
Contact address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744
Contact country: US
Contact telephone: 310-522-6000
Telephone ext.: 6154
Contact email: ROBERT.J.RIORDAN@TSOCORP.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: TESORO REFINING & MARKETING COMPANY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
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: 12/03/2012
Owner/Op end date: Not reported

Owner/operator name: TESORO REFINING AND MARKETING
Owner/operator address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744

Owner/operator country: US
Owner/operator telephone: 310-522-6000
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: 12/03/2012
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

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 551
. Waste name: Laboratory waste chemicals

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D011
- . Waste name: SILVER

Historical Generators:

Date form received by agency: 03/01/2014

Site name: TESORO REFINING & MARKETING CO LLC, SULFUR RECOVERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

. Waste code: D011
. Waste name: SILVER

Date form received by agency: 12/19/2012

Site name: TESORO REFINING AND MARKETING CO LLC SULFUR RECOVERY PLANT

Classification: Large Quantity Generator

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 241
. Waste name: Tank bottom waste

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 02/17/2012

Site name: TESORO REFINING AND MARKETING COMPANY, SULFUR RECOVERY PLANT

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/28/2010

Site name: TESORO REFINING AND MARKETING COMPANY -- SULFUR RECOVERY PLANT

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 06/04/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Site name: TESORO SULFUR RECOVERY PLANT
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 02/18/2004
Site name: SULFUR RECOVERY PLANT
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

Date form received by agency: 02/18/2004
Site name: SULFUR RECOVERY PLANT
Classification: Small Quantity Generator

Date form received by agency: 05/29/1998
Site name: EQUILON ENTERPRISES LLC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: K037
. Waste name: WASTEWATER TREATMENT SLUDGES FROM THE PRODUCTION OF DISULFOTON

Date form received by agency: 09/01/1996
Site name: EQUILON ENTERPRISES LLC
Classification: Large Quantity Generator

Date form received by agency: 04/17/1990
Site name: TEXACO REFINING & MKT. INC.
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 13

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 13

Waste code: D007

Map ID
Direction
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MAP FINDINGS

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Database(s)

EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Waste name: CHROMIUM
Amount (Lbs): 13

Waste code: D011
Waste name: SILVER
Amount (Lbs): 13

Corrective Action Summary:

Event date: 04/15/1991
Event: PA OR CERCLA INSPECTION

Event date: 08/30/1991
Event: PA OR CERCLA INSPECTION

Event date: 08/30/1991
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 08/30/1991
Event: LEAD AGENCY DETERMINATION

Event date: 03/25/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 03/25/1992
Event: CA PRIORITIZATION-LOW CA PRIORITY

Facility Has Received Notices of Violations:

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/01/2001
Date achieved compliance: 01/01/2001
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: 12/13/1988
Date achieved compliance: 02/23/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/05/1989
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

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/13/1988
Date achieved compliance: 05/07/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/05/1988
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 - 268.7
Area of violation: LDR - General
Date violation determined: 01/13/1988
Date achieved compliance: 08/26/1988
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: FR - 270
Area of violation: TSD - General
Date violation determined: 01/13/1988
Date achieved compliance: 05/07/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/24/1988
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 - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/13/1988
Date achieved compliance: 08/26/1988
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: FR - 264.140-150.H

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MAP FINDINGS

Site

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EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Area of violation: TSD - Financial Requirements
Date violation determined: 12/30/1987
Date achieved compliance: 02/10/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/04/1988
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: 10/20/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/01/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/2001
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 04/23/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/13/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/23/1989
Evaluation lead agency: State

Evaluation date: 12/01/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/13/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/07/1988
Evaluation lead agency: State

Evaluation date: 01/13/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/26/1988
Evaluation lead agency: State

Evaluation date: 01/13/1988

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MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/07/1988
Evaluation lead agency: State

Evaluation date: 12/30/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/10/1988
Evaluation lead agency: State

ICIS:

Enforcement Action ID: CASCAA0000060370008100069
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100069
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA00000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100068
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100068
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA00000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100057
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100057
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100054
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100054
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100053
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100053
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100047
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100047

Map ID
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370008100040
FRS ID: 110000746667
Action Name: TESORO REF & MKTG CO 060370008100040
Facility Name: TESORO REF & MKTG CO
Facility Address: 23208 S ALAMEDA
CARSON, CA 90810
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2819
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.81489
Longitude in Decimal Degrees: -118.232
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700081
Facility NAICS Code: 325188
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000144765
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
D and B Number: Not reported
Facility Site Name: TESORO REF & MKTG CO
Primary SIC Code: 2819
NAICS Code: 325188
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: ADDRESSED HPV

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667

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MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1993-05-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1995-12-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1997-08-21 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-05-13 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-09-25 00:00:00
Activity Status Date: 2015-01-09 16:00:31
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

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MAP FINDINGS

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-09-25 00:00:00
Activity Status Date: 2015-01-09 16:11:12
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-11-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-11-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1979-04-11 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1979-12-04 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1980-06-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1980-09-26 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Date:	1980-12-02 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1981-03-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1981-05-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1982-01-11 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1982-04-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-05-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-10-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-03-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-08-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-01-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-06-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-05-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1988-11-22 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-03-29 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1989-09-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1990-03-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Date: 1990-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-05-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-07-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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1000144765

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-09-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-07-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-02-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-05-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667

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1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-05-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-04-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2013-04-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1993-05-01 00:00:00
Activity Status Date:	1993-05-01 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1995-12-01 00:00:00
Activity Status Date:	1995-12-01 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1997-02-18 00:00:00
Activity Status Date:	1997-02-18 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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Activity Date: 2006-04-26 00:00:00
Activity Status Date: 2006-04-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-12-06 00:00:00
Activity Status Date: 1995-12-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-11-01 00:00:00
Activity Status Date: 1996-11-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-02-13 00:00:00
Activity Status Date: 2003-02-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-05-13 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667

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1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-01-20 00:00:00
Activity Status Date: 2015-01-09 16:04:37
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-28 00:00:00
Activity Status Date: 2015-01-09 16:02:29
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-03 00:00:00
Activity Status Date: 2015-01-09 16:06:10
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-05 00:00:00
Activity Status Date: 2015-01-09 16:08:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-29 00:00:00
Activity Status Date: 2015-01-09 16:10:13
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-25 00:00:00
Activity Status Date: 2015-01-09 16:00:31
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-25 00:00:00
Activity Status Date: 2015-01-09 16:11:12
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-05-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-07-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Date: 2008-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-07-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-05-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700081
Facility Registry ID: 110000746667
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-09-26 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2013-02-27 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2013-03-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2013-04-29 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700081
Facility Registry ID:	110000746667
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC-- SULFUR RECOVERY (Continued)

1000144765

Activity Date: 2013-04-30 00:00:00
 Activity Status Date: Not reported
 Activity Group: Compliance Monitoring
 Activity Type: Inspection/Evaluation
 Activity Status: Not reported

Region Code: 09
 Programmatic ID: AIR CASCA0000603700081
 Facility Registry ID: 110000746667
 Air Operating Status Code: OPR
 Default Air Classification Code: MAJ
 Air Program: Title V Permits
 Activity Date: 2006-04-26 00:00:00
 Activity Status Date: 2006-04-26 00:00:00
 Activity Group: Enforcement Action
 Activity Type: Administrative - Formal
 Activity Status: Resolved

Region Code: 09
 Programmatic ID: AIR CASCA0000603700081
 Facility Registry ID: 110000746667
 Air Operating Status Code: OPR
 Default Air Classification Code: MAJ
 Air Program: Title V Permits
 Activity Date: 2003-02-13 00:00:00
 Activity Status Date: 2003-02-13 00:00:00
 Activity Group: Enforcement Action
 Activity Type: Administrative - Informal
 Activity Status: Achieved

D34
SW
1/8-1/4
0.155 mi.
819 ft.

ARCO CREDIT UNION
1907 SEPULVEDA BLVD E
CARSON, CA 90810

LUST **S101295815**
HIST CORTESE **N/A**

Site 2 of 2 in cluster D

Relative:
Higher
Actual:
19 ft.

LUST:
 Lead Agency: LOS ANGELES RWQCB (REGION 4)
 Case Type: LUST Cleanup Site
 Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704294
 Global Id: T0603704294
 Latitude: 33.8079196
 Longitude: -118.2344929
 Status: Completed - Case Closed
 Status Date: 07/13/2017
 Case Worker: MT
 RB Case Number: I-15338
 Local Agency: LOS ANGELES COUNTY
 File Location: Regional Board
 Local Case Number: Not reported
 Potential Media Affect: Soil
 Potential Contaminants of Concern: Gasoline
 Site History: Not reported

LUST:
 Global Id: T0603704294
 Contact Type: Local Agency Caseworker

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO CREDIT UNION (Continued)

S101295815

Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704294
Contact Type: Regional Board Caseworker
Contact Name: MARYAM TAIDY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mtaidy@waterboards.ca.gov
Phone Number: 2135766741

LUST:

Global Id: T0603704294
Action Type: Other
Date: 03/13/1990
Action: Leak Reported

Global Id: T0603704294
Action Type: RESPONSE
Date: 01/15/2017
Action: Soil and Water Investigation Report

Global Id: T0603704294
Action Type: RESPONSE
Date: 10/23/2013
Action: Other Report / Document

Global Id: T0603704294
Action Type: RESPONSE
Date: 06/24/2016
Action: Soil and Water Investigation Workplan

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 10/17/2016
Action: Staff Letter

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 05/24/2016
Action: Staff Letter

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 05/10/2017
Action: Notification - Preclosure

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 04/01/2009
Action: Staff Letter

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO CREDIT UNION (Continued)

S101295815

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 07/13/2017
Action: Closure/No Further Action Letter

Global Id: T0603704294
Action Type: RESPONSE
Date: 05/01/2009
Action: Other Report / Document

Global Id: T0603704294
Action Type: ENFORCEMENT
Date: 08/22/2013
Action: Staff Letter

Global Id: T0603704294
Action Type: RESPONSE
Date: 09/22/2016
Action: Soil and Water Investigation Workplan - Regulator Responded

LUST:

Global Id: T0603704294
Status: Open - Case Begin Date
Status Date: 03/13/1990

Global Id: T0603704294
Status: Open - Site Assessment
Status Date: 03/13/1990

Global Id: T0603704294
Status: Completed - Case Closed
Status Date: 07/13/2017

LUST REG 4:

Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-15338
Status: Leak being confirmed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704294
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 3/13/1990
Date Leak Record Entered: 5/13/1990
Date Confirmation Began: 3/13/1990
Date Leak Stopped: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO CREDIT UNION (Continued)

S101295815

Date Case Last Changed on Database: 5/10/1993
Date the Case was Closed: Not reported
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 6718.8960293427723931858088438
Source of Cleanup Funding: F
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: ARCO CREDIT UNION
RP Address: 1801 E SEPULVEDA BLVD, CARSON, CA 90749
Program: LUST
Lat/Long: 33.8079196 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-15338

F35
SE
1/8-1/4
0.166 mi.
874 ft.

CHEMOIL TANK FARM & TERMINAL
2365 SEPULVEDA
CARSON, CA 90810
Site 1 of 17 in cluster F

CPS-SLIC 1005454810
N/A

Relative:
Higher

SLIC REG 4:
Region: 4
Facility Status: Site Assessment
SLIC: 0453B
Substance: TPH
Staff: PGN

Actual:
29 ft.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

F36 **WATSON LAND CO. - BLDG 0004.1**
SE **2222 SEPULVEDA**
1/8-1/4 **CARSON, CA 90810**
0.166 mi.
875 ft. **Site 2 of 17 in cluster F**

CPS-SLIC **S104404957**
N/A

Relative: SLIC REG 4:
Higher Region: 4
Actual: Facility Status: No further action required
29 ft. SLIC: 0478B
 Substance: TPH
 Staff: Not reported

F37 **IMPORT DEALERS SERVICE**
SE **2222 SEPULVEDA BLVD E**
1/8-1/4 **CARSON, CA 90810**
0.166 mi.
875 ft. **Site 3 of 17 in cluster F**

LUST **S105034950**
N/A

Relative: LUST:
Higher Lead Agency: LOS ANGELES RWQCB (REGION 4)
Actual: Case Type: LUST Cleanup Site
29 ft. Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603703199
 Global Id: T0603703199
 Latitude: 33.804242
 Longitude: -118.22529
 Status: Completed - Case Closed
 Status Date: 07/19/1996
 Case Worker: YR
 RB Case Number: I-06353
 Local Agency: LOS ANGELES COUNTY
 File Location: Not reported
 Local Case Number: Not reported
 Potential Media Affect: Aquifer used for drinking water supply
 Potential Contaminants of Concern: Kerosene
 Site History: Not reported

LUST:
Global Id: T0603703199
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703199
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603703199
Action Type: Other
Date: 09/26/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE (Continued)

S105034950

Action: Leak Discovery

Global Id: T0603703199
Action Type: Other
Date: 10/14/1988
Action: Leak Reported

LUST:

Global Id: T0603703199
Status: Open - Case Begin Date
Status Date: 09/26/1988

Global Id: T0603703199
Status: Open - Remediation
Status Date: 10/14/1988

Global Id: T0603703199
Status: Open - Site Assessment
Status Date: 01/27/1993

Global Id: T0603703199
Status: Completed - Case Closed
Status Date: 07/19/1996

LUST REG 4:

Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-06353
Status: Case Closed
Substance: Kerosene
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603703199
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: ALAMEDA
Enforcement Type: Not reported
Date Leak Discovered: 9/26/1988
Date Leak First Reported: 10/14/1988
Date Leak Record Entered: 10/20/1989
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 8/16/1996
Date the Case was Closed: 7/19/1996
How Leak Discovered: Tank Test
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE (Continued)

S105034950

Approx. Dist To Production Well (ft): 7464.0655115915442931191969381
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: 1/27/1993
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 10/14/1988
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: WATSON LAND CO
RP Address: 22010 S WILMINGTON AVE, CARSON CA 90745-4307
Program: LUST
Lat/Long: 33.8063346 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

F38
SE
1/8-1/4
0.169 mi.
892 ft.

CHEMOIL TERMINALS CORPORATION
2365 E SEPULVEDA BLVD
CARSON, CA 90810
Site 4 of 17 in cluster F

RCRA-LQG 1000301051
ICIS CAD097039028
US AIRS

Relative:
Higher
Actual:
29 ft.

RCRA-LQG:
Date form received by agency: 02/24/2016
Facility name: CHEMOIL TERMINALS CORPORATION
Facility address: 2365 EAST SEPULVEDA BLVD
CARSON, CA 90810
EPA ID: CAD097039028
Mailing address: EAST SEPULVEDA BLVD
CARSON, CA 90810
Contact: SAMPSON TANG
Contact address: EAST SEPULVEDA BLVD
CARSON, CA 90810
Contact country: US
Contact telephone: 562-485-4214
Contact email: SAMPSON.TANG@CHEMOIL.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely

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hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: CHEMOIL TERMINALS CORPORATION
Owner/operator address: EAST SEPULVEDA BLVD
CARSON, CA 90810
Owner/operator country: US
Owner/operator telephone: 562-485-4214
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: 01/01/1992
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
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CHEMOIL TERMINALS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
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: 01/01/1992
Owner/Op end date: Not reported

Owner/operator name: CHEMOIL REFINING CORP
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

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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
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:

Date form received by agency: 09/01/1996
Site name: CHEMOIL REFINING CORP
Classification: Small Quantity Generator

Date form received by agency: 08/14/1980
Site name: CHEMOIL REFINING CORP
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

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WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 700

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/29/2007
Date achieved compliance: 05/29/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/29/2007
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: 05/29/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/29/2007
Evaluation lead agency: State

ICIS:

Enforcement Action ID: CASCAA000006037CJ46900042
FRS ID: 110000476413
Action Name: CHEMOIL TERMINALS CORPORATION 06037CJ46900042
Facility Name: CHEMOIL TERMINALS CORPORATION
Facility Address: 2365 E SEPULVEDA BLVD
CARSON, CA 90810
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 5171
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.805316
Longitude in Decimal Degrees: -118.224561
Permit Type Desc: Not reported
Program System Acronym: CASCAA000006037CJ469
Facility NAICS Code: 424710
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037CJ46900041
FRS ID: 110000476413
Action Name: CHEMOIL TERMINALS CORPORATION 06037CJ46900041
Facility Name: CHEMOIL TERMINALS CORPORATION
Facility Address: 2365 E SEPULVEDA BLVD
CARSON, CA 90810
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES

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Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 5171
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.805316
Longitude in Decimal Degrees: -118.224561
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037CJ469
Facility NAICS Code: 424710
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1000301051
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
D and B Number: Not reported
Facility Site Name: CHEMOIL TERMINALS CORPORATION
Primary SIC Code: 5171
NAICS Code: 424710
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2011-07-20 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-09-04 00:00:00
Activity Status Date: 2015-10-13 15:15:14
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR

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Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-09-04 00:00:00
Activity Status Date: 2015-10-13 15:18:12
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

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Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

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Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-21 00:00:00

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Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR

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Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-06-10 00:00:00
Activity Status Date: 2009-06-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-04-08 00:00:00
Activity Status Date: 2009-04-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2011-07-20 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-22 00:00:00
Activity Status Date: 2015-10-13 15:16:10
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09

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Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-03-16 00:00:00
Activity Status Date: 2015-10-13 15:17:38
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-04 00:00:00
Activity Status Date: 2015-10-13 15:15:14
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-09-04 00:00:00
Activity Status Date: 2015-10-13 15:18:12
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-25 00:00:00
Activity Status Date: 2016-05-11 19:43:08
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

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Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-06-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-06-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-05-13 00:00:00

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Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR

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Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

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Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

1000301051

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-02-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-06-10 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

1000301051

Activity Status Date: 2009-06-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037CJ469
Facility Registry ID: 110000476413
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-04-08 00:00:00
Activity Status Date: 2009-04-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

F39
SE
1/8-1/4
0.169 mi.
892 ft.

CHEMOIL TERMINAL - CARSON
2365 E SEPULVEDA BLVD
CARSON, CA 90810

FUELS PROGRAM 1016157473
N/A

Site 5 of 17 in cluster F

Relative:
Higher
Actual:
29 ft.

FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 3325
Business Activity: Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer)

Company Name: IPC (USA) INC
Company Address: FOUR EMBACADERO CENTER
SUITE 3400
SAN FRANCISCO, CA 94111
81504, 81504, 81504, 81504
Facility ID: Diesel/Biodiesel
Facility Type: Non Renewable Fuels Importer Facility, Pipeline/Pass-Through Terminal Facility, Transmix Facility, Truck Loading Terminal/Locomotive Marker Facility
Facility Activity:

Subject to 80.1403: Not reported
Fuel Only For Off Road: Not reported
Fuel Created: Not reported
D Code: Not reported

F40
SE
1/8-1/4
0.169 mi.
892 ft.

CHEMOIL TERMINALS CORP
2365 E SEPULVEDA BLVD
LONG BEACH, CA 90810

FUELS PROGRAM 1016155083
N/A

Site 6 of 17 in cluster F

Relative:
Higher
Actual:
29 ft.

FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 5867
Business Activity: ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORP (Continued)

1016155083

Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner -
ECA Marine Fuel, Renewable Fuels Exporter, Renewable Fuels Importer
Company Name: GLENCORE LTD.
Company Address: 330 MADISON AVE
NEW YORK, NY 10017
Facility ID: 20159
Facility Type: Gas/Ethanol
Facility Activity: Oxygenate Blender
Subject to 80.1403: Not reported
Fuel Only For Off Road: Not reported
Fuel Created: Not reported
D Code: Not reported

F41
SE
1/8-1/4
0.169 mi.
892 ft.
Relative:
Higher
Actual:
29 ft.

CHEMOIL TERMINAL (RFS)
2365 E SEPULVEDA BLVD
LONG BEACH, CA 90810

FUELS PROGRAM 1016154208
N/A

Site 7 of 17 in cluster F

FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 3052
Business Activity: Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Renewable Fuel Producer, Renewable Fuels Exporter, Renewable Fuels Importer, Transmix, Truck Loading Terminal/Locomotive Marker Facility
Company Name: VITOL INC
Company Address: 2925 RICHMOND AVENUE
11TH FLOOR
HOUSTON, TX 77098
Facility ID: 07775
Facility Type: Gas/Ethanol
Facility Activity: Refiner
Subject to 80.1403: Not reported
Fuel Only For Off Road: Not reported
Fuel Created: Not reported
D Code: Not reported

F42
SE
1/8-1/4
0.169 mi.
892 ft.
Relative:
Higher
Actual:
29 ft.

CHEMOIL TERMINALS CORP
2365 E SEPULVEDA BLVD
CARSON, CA 90810

TRIS 1016156583
FUELS PROGRAM 90810CRSNT2365E

Site 8 of 17 in cluster F

TRIS:
[Click this hyperlink](#) while viewing on your computer to access 25 additional US_TRIS: record(s) in the EDR Site Report.
FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 3325
Business Activity: Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CHEMOIL TERMINALS CORP (Continued)

1016156583

<p>Company Name: Company Address: Facility ID: Facility Type: Facility Activity: Subject to 80.1403: Fuel Only For Off Road: Fuel Created: D Code:</p>	<p>Importer, PADD Importer (Renewable Fuel Importer) IPC (USA) INC FOUR EMBACADERO CENTER SUITE 3400 SAN FRANCISCO, CA 94111 80005, 80005, 80005 Diesel/Biodiesel - PADD Non Renewable Fuels Importer Facility, Transmix Facility, Truck Loading Terminal/Locomotive Marker Facility Not reported Not reported Not reported Not reported</p>
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**F43
 SE
 1/8-1/4
 0.169 mi.
 892 ft.**

**CHEMOIL TERMINALS CORP
 2365 E SEPULVEDA BLVD
 CARSON, CA 90810**

**FUELS PROGRAM 1016157474
 N/A**

Site 9 of 17 in cluster F

**Relative:
 Higher

 Actual:
 29 ft.**

<p>FUELS PROGRAM: Program Type: Company Seq. ID: Business Activity: Company Name: Company Address: Facility ID: Facility Type: Facility Activity: Subject to 80.1403: Fuel Only For Off Road: Fuel Created: D Code:</p>	<p>Diesel, Gasoline, Renewable Fuel Standard 5867 ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner - ECA Marine Fuel, Renewable Fuels Exporter, Renewable Fuels Importer GLENCORE LTD. 330 MADISON AVE NEW YORK, NY 10017 81504, 81504, 81504 Diesel/Biodiesel Non Renewable Fuels Importer Facility, Pipeline/Pass-Through Terminal Facility, Refiner Not reported Not reported Not reported Not reported</p>
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**F44
 SE
 1/8-1/4
 0.169 mi.
 892 ft.**

**CHEMOIL TERMINALS CORP
 2365 E. SEPULVEDA BLVD.
 CARSON, CA 90810**

**AST A100418679
 N/A**

Site 10 of 17 in cluster F

**Relative:
 Higher

 Actual:
 29 ft.**

<p>AST: Certified Unified Program Agencies: Owner: Total Gallons: CERSID: Facility ID: Business Name: Phone:</p>	<p>Not reported Chemoil Terminals Corp. Not reported 10399510 LACoFA0024462 CHEMOIL TERMINALS CORP 562.427.6611</p>
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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORP (Continued)

A100418679

Fax: 562.427.4621
Mailing Address: 2365 E. Sepulveda Blvd.
Mailing Address City: Carson
Mailing Address State: CA
Mailing Address Zip Code: Not reported
Operator Name: Chemoil Terminals Corp.
Operator Phone: 562.427.6611
Owner Phone: 562.427.6611
Owner Mail Address: 2365 E. Sepulveda Blvd.
Owner State: CA
Owner Zip Code: Not reported
Owner Country: United States
Property Owner Name: Watson Land Company
Property Owner Phone: (310) 952-6406
Property Owner Mailing Address: 22010 Wilmington Avenue
Property Owner City: Carson
Property Owner Stat : CA
Property Owner Zip Code: 90745
Property Owner Country: United States
EPAID: CAD097039028

F45
SE
1/8-1/4
0.169 mi.
892 ft.

CHEMOIL CORPORATION CARSON TANK FARM
2365 EAST SEPULVEDA BOULEVARD
LONG BEACH, CA 90810

FUELS PROGRAM 1016154674
N/A

Site 11 of 17 in cluster F

Relative:
Higher
Actual:
29 ft.

FUELS PROGRAM:
Program Type: Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID: 4528
Business Activity: ECA Marine Fuel Terminal, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner - ECA Marine Fuel, Renewable Fuel Producer, Renewable Fuels Importer, Truck Loading Terminal/Locomotive Marker Facility
Company Name: Phillips 66 Company
Company Address: 2331 CityWest BLVD
HOUSTON, TX 77042
Facility ID: 09096
Facility Type: Gas/Ethanol
Facility Activity: Refiner
Subject to 80.1403: Not reported
Fuel Only For Off Road: Not reported
Fuel Created: Not reported
D Code: Not reported

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

F46 SE 1/8-1/4 0.169 mi. 892 ft.	2365 E SEPULVEDA BLVD CARSON, CA Site 12 of 17 in cluster F	AST	A100344791 N/A
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Relative: Higher Actual: 29 ft.	AST: Certified Unified Program Agencies: Los Angeles County Owner: CHEMOIL TERMINALS CORP Total Gallons: 3706 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		
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F47 SE 1/8-1/4 0.169 mi. 892 ft.	CHEMOIL TERMINALS CORP 2365 E SEPULVEDA BLVD LONG BEACH, CA 90810 Site 13 of 17 in cluster F	FUELS PROGRAM	1016154209 N/A
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Relative: Higher Actual: 29 ft.	FUELS PROGRAM: Program Type: Diesel, Gasoline, Renewable Fuel Standard Company Seq. ID: 5867 Business Activity: ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner - ECA Marine Fuel, Renewable Fuels Exporter, Renewable Fuels Importer Company Name: GLENCORE LTD. Company Address: 330 MADISON AVE NEW YORK, NY 10017 Facility ID: 07775 Facility Type: Gas/Ethanol Facility Activity: Refiner Subject to 80.1403: Not reported Fuel Only For Off Road: Not reported Fuel Created: Not reported D Code: Not reported		
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Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CHEMOIL TERMINALS CORP (Continued)

1016154209

Program Type:	Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID:	6434
Business Activity:	Non-Renewable Fuels Importer, Oxygenate Blender, Oxygenate Producers and Importers, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Refiner, Renewable Fuels Exporter, Renewable Fuels Importer
Company Name:	Gunvor USA LLC
Company Address:	600 Travis Street Suite 6500 Houston, TX 77002
Facility ID:	07775
Facility Type:	Gas/Ethanol
Facility Activity:	Refiner
Subject to 80.1403:	Not reported
Fuel Only For Off Road:	Not reported
Fuel Created:	Not reported
D Code:	Not reported

**F48
 SE
 1/8-1/4
 0.169 mi.
 892 ft.**

**CHEMOIL TERMINALS CORP
 2365 E SEPULVEDA BLVD
 LONG BEACH, CA 90810**

**FUELS PROGRAM 1016154914
 N/A**

Site 14 of 17 in cluster F

**Relative:
 Higher
 Actual:
 29 ft.**

FUELS PROGRAM:	
Program Type:	Diesel, Gasoline, Renewable Fuel Standard
Company Seq. ID:	5867
Business Activity:	ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner - ECA Marine Fuel, Renewable Fuels Exporter, Renewable Fuels Importer
Company Name:	GLENCORE LTD.
Company Address:	330 MADISON AVE NEW YORK, NY 10017
Facility ID:	11530
Facility Type:	Gas/Ethanol
Facility Activity:	Non Renewable Fuels Importer
Subject to 80.1403:	Not reported
Fuel Only For Off Road:	Not reported
Fuel Created:	Not reported
D Code:	Not reported

**F49
 SE
 1/8-1/4
 0.169 mi.
 892 ft.**

**CHEMOIL TERMINALS CORPORATION
 2365 E SEPULVEDA BLVD
 LONG BEACH, CA 90810**

**CPS-SLIC S102002384
 EMI N/A
 LOS ANGELES CO. HMS
 NPDES
 WDS
 CIWQS**

Site 15 of 17 in cluster F

**Relative:
 Higher
 Actual:
 29 ft.**

CPS-SLIC:	
Region:	STATE
Facility Status:	Open - Site Assessment
Status Date:	05/19/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Global Id: SL374472460
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.8068232987013
Longitude: -118.22696685791
Case Type: Cleanup Program Site
Case Worker: NLA
Local Agency: Not reported
RB Case Number: 0453B
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Indoor Air, Other Groundwater (uses other than drinking water), Sediments, Soil, Soil Vapor, Under Investigation
Potential Contaminants of Concern: Lead, Benzene, Ethylbenzene, MTBE / TBA / Other Fuel Oxygenates, Toluene, Total Petroleum Hydrocarbons (TPH), Xylene
Site History: This site is a petroleum terminal and tank farm. Groundwater is impacted by petroleum hydrocarbons with the primary contaminant being benzene at concentrations up to 1,800 ug/L (as of March 2009 sampling). Other groundwater contaminants include total xylenes, MTBE, TBA, and dissolved lead. The groundwater plume appears to be stable on-site, with the possible exception of MTBE transport to the west. The source area onsite is unknown.

[Click here to access the California GeoTracker records for this facility:](#)

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 15
Reactive Organic Gases Tons/Yr: 13
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

Year: 1993
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 44
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 44
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 44
Reactive Organic Gases Tons/Yr: 30
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1997
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1998
County Code: 19
Air Basin: SC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1999
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2001
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: B

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Total Organic Hydrocarbon Gases Tons/Yr: 30
Reactive Organic Gases Tons/Yr: 19
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2005
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 44.395005
Reactive Organic Gases Tons/Yr: 43.5516240325
Carbon Monoxide Emissions Tons/Yr: .001423
NOX - Oxides of Nitrogen Tons/Yr: .02585
SOX - Oxides of Sulphur Tons/Yr: .0000451
Particulate Matter Tons/Yr: .017835
Part. Matter 10 Micrometers and Smlr Tons/Yr:.0178336

Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 22.10089942867557202
Reactive Organic Gases Tons/Yr: 17.113
Carbon Monoxide Emissions Tons/Yr: .006
NOX - Oxides of Nitrogen Tons/Yr: .087
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .054
Part. Matter 10 Micrometers and Smlr Tons/Yr:.05184

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18.28691522792868601
Reactive Organic Gases Tons/Yr: 17.113
Carbon Monoxide Emissions Tons/Yr: .006
NOX - Oxides of Nitrogen Tons/Yr: .087
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: .054

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Part. Matter 10 Micrometers and Smlr Tons/Yr:.05184

Year: 2008
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14.84511595376229257
Reactive Organic Gases Tons/Yr: 13.900943418923
Carbon Monoxide Emissions Tons/Yr: .00705462505
NOX - Oxides of Nitrogen Tons/Yr: .110260373
SOX - Oxides of Sulphur Tons/Yr: .0002348093675
Particulate Matter Tons/Yr: .07017175
Part. Matter 10 Micrometers and Smlr Tons/Yr:.06737175

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14.895987240356099
Reactive Organic Gases Tons/Yr: 14.0658391
Carbon Monoxide Emissions Tons/Yr: 3.9144000000000001E-4
NOX - Oxides of Nitrogen Tons/Yr: 6.5440000000000003E-3
SOX - Oxides of Sulphur Tons/Yr: 1.1518999999999999E-5
Particulate Matter Tons/Yr: 4.3220999999999997E-3
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.1524999999999999E-3

Year: 2010
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 15.4120991223567
Reactive Organic Gases Tons/Yr: 14.562949164167
Carbon Monoxide Emissions Tons/Yr: 6.8000000000000005E-4
NOX - Oxides of Nitrogen Tons/Yr: 1.1429999999999999E-2
SOX - Oxides of Sulphur Tons/Yr: 1.6500000000000001E-5
Particulate Matter Tons/Yr: 7.5300000000000002E-3
Part. Matter 10 Micrometers and Smlr Tons/Yr:7.4327999999999998E-3

Year: 2011
County Code: 19
Air Basin: SC
Facility ID: 800272

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 17.730348952
Reactive Organic Gases Tons/Yr: 16.919435851
Carbon Monoxide Emissions Tons/Yr: 0.00133
NOX - Oxides of Nitrogen Tons/Yr: 0.0223
SOX - Oxides of Sulphur Tons/Yr: 3.9361934e-005
Particulate Matter Tons/Yr: 0.01471
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.0145864

Year: 2012
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 22.888126626
Reactive Organic Gases Tons/Yr: 22.07438498
Carbon Monoxide Emissions Tons/Yr: 0.00859
NOX - Oxides of Nitrogen Tons/Yr: 0.13398
SOX - Oxides of Sulphur Tons/Yr: 0.00078
Particulate Matter Tons/Yr: 0.00643
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.0062552

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 21.568368351
Reactive Organic Gases Tons/Yr: 20.663034707
Carbon Monoxide Emissions Tons/Yr: 0.05188
NOX - Oxides of Nitrogen Tons/Yr: 0.51693
SOX - Oxides of Sulphur Tons/Yr: 0.00301
Particulate Matter Tons/Yr: 0.05665
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.0548304

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 800272
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 29.472302441

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Reactive Organic Gases Tons/Yr: 22.3315
Carbon Monoxide Emissions Tons/Yr: 0.08925
NOX - Oxides of Nitrogen Tons/Yr: 0.3315
SOX - Oxides of Sulphur Tons/Yr: 0.00153
Particulate Matter Tons/Yr: 0.01912
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.018164

LOS ANGELES CO. HMS:

Region: LA
Permit Category: Not reported
Facility Id: 001480-001554
Facility Type: Not reported
Facility Status: OPEN
Area: 22
Permit Number: Not reported
Permit Status: Not reported

NPDES:

Facility Status: Active
NPDES Number: CAS000001
Region: 4
Agency Number: 0
Regulatory Measure ID: 188869
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 4 19I001838
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 03/30/1992
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 2365 E Sepulveda Blvd
Discharge Name: Chemoil Corporation
Discharge City: Long Beach
Discharge State: California
Discharge Zip: 90802
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 4
Regulatory Measure ID: 188869
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 4 19I001838
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Effective Date Of Regulatory Measure: 03/30/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Chemoil Corporation
Discharge Address: 2365 E Sepulveda Blvd
Discharge City: Long Beach
Discharge State: California
Discharge Zip: 90802
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

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: 4
Regulatory Measure ID: 188869
Order Number: Not reported
Regulatory Measure Type: Industrial
Place ID: Not reported
WDID: 4 19I001838
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: 03/30/1992
Status: Active
Status Date: 09/01/2010
Place Size: 15
Place Size Unit: Acres
Contact: Sampson Tang
Contact Title: Compliance Manager
Contact Phone: 562-485-4214
Contact Phone Ext: Not reported
Contact Email: sampson.tang@chemoil.com
Operator Name: Chemoil Corporation
Operator Address: 2365 E Sepulveda Blvd
Operator City: Long Beach
Operator State: California
Operator Zip: 90802
Operator Contact: Sampson Tang
Operator Contact Title: Compliance Manager
Operator Contact Phone: 562-485-4214
Operator Contact Phone Ext: Not reported
Operator Contact Email: sampson.tang@chemoil.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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Emergency Phone: 562-424-8515
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 Commercial 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
Receiving Water Name: Pacific Ocean
Certifier: Sampson Tang
Certifier Title: Mr. Compliance Engineer
Certification Date: 26-JUN-15
Primary Sic: 5171-Petroleum Bulk Stations and Terminals
Secondary Sic: Not reported
Tertiary Sic: Not reported

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: 4 19I001838
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: Active
Status Date: 09/01/2010
Operator Name: Chemoil Corporation
Operator Address: 2365 E Sepulveda Blvd
Operator City: Long Beach
Operator State: California
Operator Zip: 90802

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Active

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

Agency Number: 0
Region: 4
Regulatory Measure ID: 188869
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 4 19I001838
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: Not reported
Discharge Name: Chemoil Corporation
Discharge Address: 2365 E Sepulveda Blvd
Discharge City: Long Beach
Discharge State: California
Discharge Zip: 90802
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial Ind: Not reported
Constype Electrical Line Ind: Not reported
Constype Gas Line Ind: Not reported
Constype Industrial Ind: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

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:	4
Regulatory Measure ID:	188869
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I001838
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:	03/30/1992
Status:	Active
Status Date:	09/01/2010
Place Size:	15
Place Size Unit:	Acres
Contact:	Sampson Tang
Contact Title:	Compliance Manager
Contact Phone:	562-485-4214
Contact Phone Ext:	Not reported
Contact Email:	sampson.tang@chemoil.com
Operator Name:	Chemoil Corporation
Operator Address:	2365 E Sepulveda Blvd
Operator City:	Long Beach
Operator State:	California
Operator Zip:	90802
Operator Contact:	Sampson Tang
Operator Contact Title:	Compliance Manager
Operator Contact Phone:	562-485-4214
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	sampson.tang@chemoil.com

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

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: 562-424-8515
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 Commercial 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
Receiving Water Name: Pacific Ocean
Certifier: Sampson Tang
Certifier Title: Mr. Compliance Engineer
Certification Date: 26-JUN-15
Primary Sic: 5171-Petroleum Bulk Stations and Terminals
Secondary Sic: Not reported
Tertiary Sic: Not reported

WDS:

Facility ID: 4 19I001838
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
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: 4
Facility Telephone: 5624276611
Facility Contact: Ken Ezoe
Agency Name: CHEMOIL TERMINALS CORP.
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 5171
SIC Code 2: Not reported
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMOIL TERMINALS CORPORATION (Continued)

S102002384

nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).

Primary Waste: STORMS
Waste Type2: Not reported
Waste2: Stormwater Runoff
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).

Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
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 those who 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 dairy waste ponds.

CIWQS:

Agency: Chemoil Corporation
Agency Address: 2365 E Sepulveda Blvd, Long Beach, CA 90802
Place/Project Type: Industrial - Petroleum Bulk Stations and Terminals
SIC/NAICS: 5171
Region: 4
Program: INDSTW
Regulatory Measure Status: Active
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 4 19I001838
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 03/30/1992
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: 1
Violations within 5 years: 1
Latitude: 33.80555
Longitude: -118.22571

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

F50 **CHEMOIL TERMINAL CORP CA**
SE **2365 E SEPULVEDA BLVD**
1/8-1/4 **LONG BEACH, CA 90810**
0.169 mi.
892 ft. **Site 16 of 17 in cluster F**

FUELS PROGRAM **1016157475**
N/A

Relative:
Higher
Actual:
29 ft.

FUELS PROGRAM:
 Program Type:
 Company Seq. ID:
 Business Activity:

Diesel, Gasoline, Renewable Fuel Standard
 5867
 ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Mobile Facility,
 Non-Renewable Fuels Importer, Non-Renewable Fuels Importer, Oxygenate
 Blender, PADD Importer, PADD Importer, PADD Importer (Renewable Fuel
 Importer), Pipeline/Pass-Through Terminal, Refiner, Refiner, Refiner -
 ECA Marine Fuel, Renewable Fuels Exporter, Renewable Fuels Importer
 GLENCORE LTD.
 330 MADISON AVE
 NEW YORK, NY 10017
 81504, 81504, 81504, 81504, 81504
 Diesel/Biodiesel
 ECA Marine Fuel Terminal, Importer - ECA Marine Fuel, Non Renewable
 Fuels Importer Facility, Refiner, Refiner - ECA Marine Fuel
 Not reported
 Not reported
 Not reported
 Not reported

Company Name:
 Company Address:

Facility ID:
 Facility Type:
 Facility Activity:

Subject to 80.1403:
 Fuel Only For Off Road:
 Fuel Created:
 D Code:

Program Type:
 Company Seq. ID:
 Business Activity:

Diesel, Gasoline, Renewable Fuel Standard
 3052
 Mobile Facility, Non-Renewable Fuels Importer, Non-Renewable Fuels
 Importer, Oxygenate Blender, PADD Importer, PADD Importer, PADD
 Importer (Renewable Fuel Importer), Pipeline/Pass-Through Terminal,
 Refiner, Refiner, Renewable Fuel Producer, Renewable Fuels Exporter,
 Renewable Fuels Importer, Transmix, Truck Loading Terminal/Locomotive
 Marker Facility

Company Name:
 Company Address:

Facility ID:
 Facility Type:
 Facility Activity:

Subject to 80.1403:
 Fuel Only For Off Road:
 Fuel Created:
 D Code:

VITOL INC
 2925 RICHMOND AVENUE
 11TH FLOOR
 HOUSTON, TX 77098
 81504
 Diesel/Biodiesel
 Refiner
 Not reported
 Not reported
 Not reported
 Not reported

F51 **SHELL OIL COMPANY**
SE **2375 SEPULVEDA BLVD**
1/8-1/4 **CARSON, CA**
0.188 mi.
995 ft. **Site 17 of 17 in cluster F**

SWEEPS UST **S106932088**
N/A

Relative:
Higher
Actual:
27 ft.

SWEEPS UST:
 Status: Active
 Comp Number: 12825
 Number: 9
 Board Of Equalization: Not reported
 Referral Date: 06-30-89
 Action Date: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SHELL OIL COMPANY (Continued)

S106932088

Created Date: 06-30-89
 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

52
NNW
1/8-1/4
0.211 mi.
1114 ft.

ACTA SOUTH - PARCEL SE-352/353
S. ALAMEDA ST.
CARSON, CA 90810

CPS-SLIC S106487316
N/A

Relative:
Lower
Actual:
17 ft.

CPS-SLIC:
 Region: STATE
Facility Status: Completed - Case Closed
 Status Date: 04/19/2003
 Global Id: SL0603723245
 Lead Agency: LOS ANGELES RWQCB (REGION 4)
 Lead Agency Case Number: Not reported
 Latitude: 33.815408
 Longitude: -118.231928
 Case Type: Cleanup Program Site
 Case Worker: SH
 Local Agency: Not reported
 RB Case Number: 0747G8
 File Location: Not reported
 Potential Media Affected: Not reported
 Potential Contaminants of Concern: Not reported
 Site History: Not reported

Click here to access the California GeoTracker records for this facility:

53
WSW
1/8-1/4
0.226 mi.
1192 ft.

HARGROVE
NE OF SEPULVEDA & ALAMEDA
CARSON, CA

WMUDS/SWAT S103441616
N/A

Relative:
Higher
Actual:
21 ft.

WMUDS/SWAT:
 Edit Date: Not reported
 Complexity: Not reported
 Primary Waste: Not reported
 Primary Waste Type: Not reported
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Base Meridian: Not reported
 NPID: Not reported
 Tonnage: 0
 Regional Board ID: Not reported
 Municipal Solid Waste: False
 Superorder: False

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

HARGROVE (Continued)

S103441616

Open To Public: False
 Waste List: False
 Agency Type: Not reported
 Agency Name: HARGROVE
 Agency Department: Not reported
 Agency Address: Not reported
 Agency City,St,Zip: Not reported
 Agency Contact: Not reported
 Agency Telephone: Not reported
 Land Owner Name: Not reported
 Land Owner Address: Not reported
 Land Owner City,St,Zip: CA
 Land Owner Contact: Not reported
 Land Owner Phone: Not reported
 Region: 4
 Facility Type: Not reported
 Facility Description: Not reported
 Facility Telephone: Not reported
 SWAT Facility Name: Not reported
 Primary SIC: Not reported
 Secondary SIC: Not reported
 Comments: Not reported
 Last Facility Editors: Not reported
 Waste Discharge System: False
 Solid Waste Assessment Test Program: True
 Toxic Pits Cleanup Act Program: False
 Resource Conservation Recovery Act: False
 Department of Defence: False
 Solid Waste Assessment Test Program: HARGROVE
 Threat to Water Quality: Not reported
 Sub Chapter 15: False
 Regional Board Project Officer: LT
 Number of WMUDS at Facility: 1
 Section Range: Not reported
 RCRA Facility: Not reported
 Waste Discharge Requirements: Not reported
 Self-Monitoring Rept. Frequency: Not reported
 Waste Discharge System ID: 4 190420NUR
 Solid Waste Information ID: Not reported

G54 **IMPORT DEALERS SERVICE CORP**
SSE **2222 E SEPULVEDA**
1/8-1/4 **LONG BEACH, CA 90810**
0.231 mi.
1218 ft. **Site 1 of 7 in cluster G**

SWEEPS UST **S101618173**
CA FID UST **N/A**

Relative: SWEEPS UST:
Higher Status: Active
Actual: Comp Number: 41147
26 ft. Number: 9
 Board Of Equalization: 44-012164
 Referral Date: 07-01-85
 Action Date: Not reported
 Created Date: 02-29-88
 Owner Tank Id: #10
 SWRCB Tank Id: 19-060-041147-000001
 Tank Status: A
 Capacity: 10000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE CORP (Continued)

S101618173

Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 11

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #9
SWRCB Tank Id: 19-060-041147-000002
Tank Status: A
Capacity: 7500
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #8
SWRCB Tank Id: 19-060-041147-000003
Tank Status: A
Capacity: 1000
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #7
SWRCB Tank Id: 19-060-041147-000004
Tank Status: A
Capacity: 7500
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE CORP (Continued)

S101618173

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #6
SWRCB Tank Id: 19-060-041147-000005
Tank Status: A
Capacity: 7500
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #5
SWRCB Tank Id: 19-060-041147-000006
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #4
SWRCB Tank Id: 19-060-041147-000007
Tank Status: A
Capacity: 4000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE CORP (Continued)

S101618173

Created Date: 02-29-88
Owner Tank Id: #3
SWRCB Tank Id: 19-060-041147-000008
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #2
SWRCB Tank Id: 19-060-041147-000009
Tank Status: A
Capacity: 4000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: #1
SWRCB Tank Id: 19-060-041147-000010
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 41147
Number: 9
Board Of Equalization: 44-012164
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 11
SWRCB Tank Id: 19-060-041147-000011
Tank Status: A
Capacity: 18000
Active Date: 07-01-85

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IMPORT DEALERS SERVICE CORP (Continued)

S101618173

Tank Use: UNKNOWN
 STG: W
 Content: Not reported
 Number Of Tanks: Not reported

CA FID UST:

Facility ID: 19002142
 Regulated By: UTNKA
 Regulated ID: CAC000638
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 2134270965
 Mail To: Not reported
 Mailing Address: 2222 E SEPULVEDA BLVD
 Mailing Address 2: Not reported
 Mailing City,St,Zip: CARSON 90810
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

Facility ID: 19002142
 Regulated By: UTNKA
 Regulated ID: 00041147
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 2134270965
 Mail To: Not reported
 Mailing Address: 2222 E SEPULVEDA
 Mailing Address 2: Not reported
 Mailing City,St,Zip: LONG BEACH 90810
 Contact: Not reported
 Contact Phone: Not reported
 DUNs Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

G55
SSE
 1/8-1/4
 0.231 mi.
 1218 ft.

IMPORT DEALER SERVICE CORP
2222 E SEPULVEDA BLVD
LONG BEACH, CA 90810
 Site 2 of 7 in cluster G

SWEEPS UST S100721146
LOS ANGELES CO. HMS N/A
WDS

Relative:
Higher
Actual:
26 ft.

SWEEPS UST:
 Status: Not reported
 Comp Number: 6353
 Number: Not reported
 Board Of Equalization: 44-008066
 Referral Date: Not reported
 Action Date: Not reported
 Created Date: Not reported
 Owner Tank Id: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALER SERVICE CORP (Continued)

S100721146

SWRCB Tank Id: 19-000-006353-000002
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: Not reported
Number Of Tanks: 4

Status: Not reported
Comp Number: 6353
Number: Not reported
Board Of Equalization: 44-008066
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000004
Tank Status: Not reported
Capacity: 7000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 6353
Number: Not reported
Board Of Equalization: 44-008066
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000005
Tank Status: Not reported
Capacity: 7000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 6353
Number: Not reported
Board Of Equalization: 44-008066
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000006
Tank Status: Not reported
Capacity: 7500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALER SERVICE CORP (Continued)

S100721146

Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 7

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALER SERVICE CORP (Continued)

S100721146

Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000009
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000010
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 6353
Number: 2
Board Of Equalization: 44-008066
Referral Date: 09-16-91
Action Date: 08-07-92
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-006353-000011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALER SERVICE CORP (Continued)

S100721146

Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:

Region: LA
Permit Category: T
Facility Id: 009067-006353
Facility Type: 0
Facility Status: Closed
Area: 22
Permit Number: 00001803T
Permit Status: Closed

Region: LA
Permit Category: T
Facility Id: 009067-006353
Facility Type: 1
Facility Status: Closed
Area: 22
Permit Number: 000155925
Permit Status: Removed

Region: LA
Permit Category: T
Facility Id: 009067-017022
Facility Type: 0
Facility Status: Removed
Area: 22
Permit Number: 000006386
Permit Status: Removed

WDS:

Facility ID: 4 19I012281
Facility Type: Not reported
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: 4
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: ALLWASTE ENVIRONMENTAL SERVICE
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Not reported
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

IMPORT DEALER SERVICE CORP (Continued)

S100721146

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 those who 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 dairy waste ponds.

G56
SSE
1/8-1/4
0.231 mi.
1218 ft.

PHILIP WEST INDUSTRIAL SERVICES
2222 E SEPULVEDA BLVD
LONG BEACH, CA 90810
Site 3 of 7 in cluster G

RCRA NonGen / NLR **1000921620**
FINDS **CAD981685886**
ECHO

Relative:
Higher
Actual:
26 ft.

RCRA NonGen / NLR:
 Date form received by agency: 05/03/2007
 Facility name: PHILIP WEST INDUSTRIAL SERVICES INC *D
 Facility address: 2222 E SEPULVEDA BLVD
 CARSON, CA 90810
 EPA ID: CAD981685886
 Mailing address: 18000 72ND AVE S
 STE 217
 KENT, WA 98032
 Contact: CRAIG ERICKSON
 Contact address: 18000 72ND AVE S STE 217
 KENT, WA 98032
 Contact country: US
 Contact telephone: 425-204-7187
 Contact email: Not reported
 EPA Region: 09
 Land type: Private
 Classification: Non-Generator
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILIP WEST INDUSTRIAL SERVICES (Continued)

1000921620

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PHILIP WEST INDUSTRIAL SVCS
Owner/operator address: 12946 DAIRY ASHFORD STE 100
SUGARLAND, TX 77478

Owner/operator country: Not reported
Owner/operator telephone: 281-276-3000
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
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: 10/10/2000
Site name: PHILIP WEST INDUSTRIAL SERVICES
Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: S - 279
Area of violation: Used Oil - Generators
Date violation determined: 08/11/1997
Date achieved compliance: 08/11/1997
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/24/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: S - 279

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILIP WEST INDUSTRIAL SERVICES (Continued)

1000921620

Area of violation: Used Oil - Generators
Date violation determined: 08/11/1997
Date achieved compliance: 08/11/1997
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 02/24/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 02/27/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/11/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 08/11/1997
Evaluation lead agency: EPA

Evaluation date: 11/25/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/23/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000621364

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PHILIP WEST INDUSTRIAL SERVICES (Continued)

1000921620

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000921620
 Registry ID: 110000621364
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110000621364>

G57
SSE
 1/8-1/4
 0.231 mi.
 1218 ft.

IMPORT DEALERS SERVICE CORP
2222 E SEPULVEDA
LONG BEACH, CA 90810

HIST UST **S118411324**
N/A

Site 4 of 7 in cluster G

Relative:
Higher
Actual:
26 ft.

HIST UST:
 File Number: 00026F4B
 URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026F4B.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:

G58
SSE
 1/8-1/4
 0.231 mi.
 1218 ft.

IMPORT DEALERS SERVICE
2222 SEPULVEDA
CARSON, CA 90745

HIST UST **U001566233**
HIST CORTESE **N/A**

Site 5 of 7 in cluster G

Relative:
Higher
Actual:
26 ft.

HIST UST:
 File Number: Not reported
 URL: Not reported
 Region: STATE
 Facility ID: 00000041147
 Facility Type: Other
 Other Type: TRANSPORT CO
 Contact Name: D.J. ALLARD
 Telephone: 2134270965
 Owner Name: IMPORT DEALERS SERVICE CORP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE (Continued)

U001566233

Owner Address: 2222 E. SEPULVEDA
Owner City,St,Zip: LONG BEACH, CA 90810
Total Tanks: 0011

Tank Num: 001
Container Num: #10
Year Installed: 1974
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: #9
Year Installed: 1974
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: #8
Year Installed: 1980
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: #7
Year Installed: 1970
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: #6
Year Installed: 1970
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: #5
Year Installed: 1970
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IMPORT DEALERS SERVICE (Continued)

U001566233

Tank Num: 007
Container Num: #4
Year Installed: 1970
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 008
Container Num: #3
Year Installed: 1970
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: #2
Year Installed: 1980
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 011
Container Num: 11
Year Installed: 1970
Tank Capacity: 00018000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-06353

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

G59 **WATSON LAND CO. - BLDG 0004.1**
SSE **2222 E. SEPULVEDA BLVD**
1/8-1/4 **CARSON, CA 90810**
0.231 mi.
1218 ft. **Site 6 of 7 in cluster G**

CPS-SLIC **S103642989**
N/A

Relative: **CPS-SLIC:**
Higher Region: STATE
Actual: **Facility Status:** **Completed - Case Closed**
26 ft. Status Date: 03/21/1997
 Global Id: SLT43278276
 Lead Agency: LOS ANGELES RWQCB (REGION 4)
 Lead Agency Case Number: Not reported
 Latitude: 33.806202
 Longitude: -118.227262
 Case Type: Cleanup Program Site
 Case Worker: Not reported
 Local Agency: Not reported
 RB Case Number: 0478B
 File Location: Not reported
 Potential Media Affected: Not reported
 Potential Contaminants of Concern: Not reported
 Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

G60 **PHILIP WEST INDUSTRIAL SERVICES**
SSE **2222 E SEPULVEDA**
1/8-1/4 **CARSON, CA 90810**
0.231 mi.
1218 ft. **Site 7 of 7 in cluster G**

HWP **S103642990**
N/A

Relative: **HWP:**
Higher EPA Id: CAD981685886
Actual: Cleanup Status: CLOSED
26 ft. Latitude: 33.80419
 Longitude: -118.2258
 Facility Type: Historical - Non-Operating
 Facility Size: Not reported
 Team: Not reported
 Supervisor: Not reported
 Site Code: Not reported
 Assembly District: 64
 Senate District: 35
 Public Information Officer: Not reported
 Public Information Officer: Not reported

Activities:
EPA Id: CAD981685886
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, CONTAIN2
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 08/15/1994

EPA Id: CAD981685886
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, CONTAIN2
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 08/22/1994

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PHILIP WEST INDUSTRIAL SERVICES (Continued)

S103642990

EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Unit Names: CONTAIN1, CONTAIN2
 Event Description: New Operating Permit - TECHNICAL COMPLETE LETTER
 Actual Date: 08/15/1994

EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Unit Names: CONTAIN1, CONTAIN2
 Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
 Actual Date: 08/29/1994

EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Unit Names: CONTAIN1, CONTAIN2
 Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
 Actual Date: 08/22/1994

EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Unit Names: CONTAIN1, CONTAIN2
 Event Description: New Operating Permit - CALL-IN LETTER ISSUED
 Actual Date: 08/11/1994

EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Unit Names: CONTAIN1, CONTAIN2
 Event Description: New Operating Permit - PUBLIC COMMENT (END)
 Actual Date: 08/22/1994

Alias:
 EPA Id: CAD981685886
 Facility Type: Historical - Non-Operating
 Alias Type: FRS
 Alias: 110000621364

61
West
1/4-1/2
0.253 mi.
1334 ft.

ACTA SOUTH - PARCEL SE-358
ALAMEDA ST
CARSON, CA 90745

CPS-SLIC **S106393819**
CHMIRS **N/A**

Relative:
Higher
Actual:
24 ft.

CPS-SLIC:
 Region: STATE
Facility Status: Completed - Case Closed
 Status Date: 04/09/2003
 Global Id: SL0603779405
 Lead Agency: LOS ANGELES RWQCB (REGION 4)
 Lead Agency Case Number: Not reported
 Latitude: 33.8091323174248
 Longitude: -118.235172948193
 Case Type: Cleanup Program Site
 Case Worker: SH
 Local Agency: Not reported
 RB Case Number: 0747G9
 File Location: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ACTA SOUTH - PARCEL SE-358 (Continued)

S106393819

Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

CHMIRS:

OES Incident Number: 0-2160
OES notification: 05/16/2000
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 Agency 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
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: 2000
Agency: Mobil
Incident Date: 5/16/200012:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: Yes
Site Type: Pipe Line
E Date: Not reported
Substance: Test water
BBLs: 1
Gallons: 0.000000

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ACTA SOUTH - PARCEL SE-358 (Continued)

S106393819

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:	Pressuring the pipeline for a hydro static test and the line ruptured

H62
NE
 1/4-1/2
 0.273 mi.
 1444 ft.

WILMINGTON CLASS&YARD OE
LOS ANGELES, CA
 Site 1 of 3 in cluster H

UXO 1018150955
N/A

Relative:
Higher
Actual:
26 ft.

UXO:
 DoD Component: FUDS
 Installation Name: WILMINGTON CLA & HOLD YD
 Facility Address 2: Not reported
 Site ID: 02OEW
 Site Type: Medium/Large Caliber
 Latitude: 33.812500
 Longitude: -118.225000

H63
NE
 1/4-1/2
 0.273 mi.
 1444 ft.

WILMINGTON CLA & HOLD YD
LOS ANGELES, CA
 Site 2 of 3 in cluster H

FUDS 1007212263
N/A

Relative:
Higher
Actual:
26 ft.

FUDS:
 EPA Region: 09
 Congressional District: 44
 FUDS Number: J09CA0730
 State: CA
 Facility Name: WILMINGTON CLA & HOLD YD
 Fiscal Year: 2013
 City: LOS ANGELES
 Federal Facility ID: CA9799F5690
 Telephone: 213-452-3920
 INST ID: 61234
 County: LOS ANGELES
 RAB: Not reported
 CORPS_DIST: Los Angeles District (SPL)
 NPL Status: Not Listed
 CTC: 163

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILMINGTON CLA & HOLD YD (Continued)

1007212263

Current Owner:	Local Government
Future Prog:	Not reported
Description:	<p>The site consisted of 274.57 acres, located 2401 E. Pacific Coast Highway in Wilmington, California. The property composing the Wilmington Class and Hold Yard was acquired by the U.S. Army during 1943 and 1944. Records indicate that 272.23 acres were leased from the City of Los Angeles (W2972-eng-755 and W04- 193-eng-4356). Approximately 1.55 acres were leased from the Watson Land Company (W04-193-eng2652). Approximately 0.65 acres were acquired by permit and 0.142 acres were acquired by license from various private and public parties. Thus, a total of 274.57 acres were acquired by the Army for the Wilmington Class and Hold Yard. In the months of May and June 1946, 201.57 and 73 acres, respectively, of the Class and Hold Yard were declared surplus. On 1 July 1946 the land was transferred to the Veterans Administration. The City of Los Angeles currently owns 272.23 acres of the former Wilmington Class and Hold Yard. The property is currently being beneficially used for many purposes. Business located on the property include shipping container platforms for loading and unloading container onto railroad cars (Intermodal Container and Transportation Facility), sulfur storage (California Sulfur Company), import and export operations (Import Dealers Service Corporation), warehouses (Port of Los Angeles, California Cartage Company, Inc.) and a refinery (Texaco).</p>
Current Program:	Not reported
History:	<p>The site was used by the U.S. Army as a loading and storage area for military equipment awaiting shipment. Improvements to the site, all constructed in 1943 and 1944, included three warehouses, a railroad spur, sewer and water lines. The property, formerly known as Manuel Warehouse, is currently the site of the Cal Cartage, Inc., a container and freight station that stores and distributes goods that arrive at the Port of Los Angeles from U.S. and international destinations. Goods stored and distributed at the facility include bulk cotton, copper, and other miscellaneous items. Cal Cartage occupies approximately the same area as the former Manuel Warehouse, which encompassed 85 acres. The southern boundary of Cal Cartage is Pacific Coast Highway; the northern boundary is Sepulveda Boulevard; the western boundary is the Dominguez Channel and Union Pacific Railroad Line; and the eastern boundary is a Southern California Edison electrical tower transmission easement. Although Cal Cartage leases the Edison easement for storage, this easement is not part of the Wilmington Classification and Hold Yard or Manuel Warehouse site. There are three 200,000 square foot former DoD warehouses being beneficially used by Cal Cartage. These warehouses currently numbered 13, 16, and 17 (formerly numbers 1, 2, and 3 respectively) were constructed in 1943 for the DoD. The LA Ordnance Depot occupied warehouse No. 17. The warehouses are surrounded by roadways, rail lines, and other miscellaneous facilities associated with importing and exporting of goods from the port. Some of the rail lines, constructed for DoD use, are being beneficially used. Large portions of the property are occupied by stored freight containers.</p>
Latitude Degree:	33
Latitude Minute:	49
Latitude Second:	45
Latitude Direction:	N
Longitude Degree:	-118
Longitude Minute:	14
Longitude Second:	30

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WILMINGTON CLA & HOLD YD (Continued)

1007212263

Longitude Direction: E

H64
NE
1/4-1/2
0.273 mi.
1444 ft.
Relative:
Higher
Actual:
26 ft.

WILMINGTON CLASS & HOLD YD
LOS ANGELES, CA
Site 3 of 3 in cluster H

ENVIROSTOR **S107737624**
N/A

ENVIROSTOR:
 Facility ID: 80000531
 Status: Inactive - Needs Evaluation
 Status Date: 07/01/2005
 Site Code: Not reported
 Site Type: Military Evaluation
 Site Type Detailed: FUDS
 Acres: 275
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Not reported
 Supervisor: Douglas Bautista
 Division Branch: Cleanup Cypress
 Assembly: 64
 Senate: 35
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: DERA
 Latitude: 33.8125
 Longitude: -118.225
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: WILMINGTON CLASS & HOLD YARD
 Alias Type: Alternate Name
 Alias Name: CA99799F569000
 Alias Type: Federal Facility ID
 Alias Name: J09CA0730
 Alias Type: INPR
 Alias Name: 80000531
 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: 09/30/1999
 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILMINGTON CLASS & HOLD YD (Continued)

S107737624

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

I65
SSW
1/4-1/2
0.299 mi.
1580 ft.

KMEP CARSON TERMINAL (FORMER GATX)
2000 E. SEPULVEDA BLVD
CARSON, CA 90810

ENVIROSTOR
CPS-SLIC
CHMIRS
LA Co. Site Mitigation

S108402949
N/A

Site 1 of 4 in cluster I

Relative:
Higher
Actual:
26 ft.

ENVIROSTOR:
Facility ID: 71002322
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.80732
Longitude: -118.2401
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD010715837
Alias Type: EPA Identification Number
Alias Name: 110002081826
Alias Type: EPA (FRS #)
Alias Name: 71002322
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Schedule Revised Date: Not reported

CPS-SLIC:

Region: STATE
Facility Status: **Open - Remediation**
Status Date: 01/22/2009
Global Id: SLT43129127
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.806202
Longitude: -118.227262
Case Type: Cleanup Program Site
Case Worker: AS
Local Agency: Not reported
RB Case Number: 0045
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: The tank storage facility at the site was constructed in 1921 for petroleum storage and is bordered by petroleum processing facilities operated by Tesoro Los Angeles Refinery, ConocoPhillips Los Angeles Plant, and BP Arco Refinery. Site assessment and remediation under Regional Board Cleanup and Abatement Order (CAO) No. 90-152. Responsible Party also participates Carson Regional Groundwater Group's (CRGG) regional groundwater contamination investigation. US EPA and RWQCB established MOU to regulate groundwater contamination matter under RCRA Corrective Action and CAO Order No. 90-152.

[Click here to access the California GeoTracker records for this facility:](#)

CHMIRS:

OES Incident Number: 1-6225
OES notification: 10/18/2011
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 Agency 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

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:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1315
Year:	2011
Agency:	Kinder Morgan
Incident Date:	10/18/2011
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude oily water
Quantity Released:	9' X 20'
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Operator observed stain on surface.
OES Incident Number:	10-0309
OES notification:	01/15/2010
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 Agency Personel # Of Decontaminated:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

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
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:	Industrial Plant
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1200
Year:	2010
Agency:	Kinder Morgan
Incident Date:	1/15/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Waste water
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Caller stated the oily waste water from a 3 inch plastic pipe onto the ground and stained the area (approximately 1 FT by 1 FT).It is contained in a tank pad area. Clean-up is completed.
OES Incident Number:	1-3060
OES notification:	05/18/2011
OES Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

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
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:	Other
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1535
Year:	2011
Agency:	Kinder Morgan
Incident Date:	5/18/2011
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Jet Fuel
Quantity Released:	UNK
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	The caller is reporting a 2 foot by 8 foot stain on the floor. The cause of the spill is under investigation.
OES Incident Number:	10-6043
OES notification:	10/07/2010
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
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:	Pipe Line
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	800
Year:	2010
Agency:	Kinder Morgan
Incident Date:	10/7/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydro test water

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	The caller is reporting a threatened release due to pressure drop during a hydro test on pipeline.
OES Incident Number:	08-6829
OES notification:	09/19/2008
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
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:	Pipe Line
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Date/Time:	0055
Year:	2008
Agency:	Kinder Morgan
Incident Date:	9/19/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Unknown Additive
Quantity Released:	1ft x 7"
Unknown:	Not reported
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:	Due to unknown causes, a leak from a containment area went onto the dirt
OES Incident Number:	10-0924
OES notification:	02/04/2010
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Other
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1110
Year:	2010
Agency:	Kinder Morgan
Incident Date:	2/4/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Jet Fuel
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	The caller is reporting a weep from a nipple on a pipe. There is a 1/2 inch stain on floor.
OES Incident Number:	12-7429
OES notification:	12/05/2012
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

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
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:	Refinery
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1100
Year:	2012
Agency:	Kinder Morgan
Incident Date:	12/5/2012
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Water
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	**Threatened Release ONLY***Caller states there is a pressure drop during a hydro test. They are running test at this time.
OES Incident Number:	5-2650
OES notification:	05/03/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	5/3/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude
Gallons:	0.000000
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Seal on pipe flange gave way
OES Incident Number:	1-3493
OES notification:	06/10/2011
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 Agency 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
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:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1330
Year:	2011
Agency:	Kinder Morgan
Incident Date:	6/10/2011
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	UNK
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMEP CARSON TERMINAL (FORMER GATX) (Continued)

S108402949

Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#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: The caller is reporting a spill on the floor of facility due to a leak from a pipe. The spill is 3 feet by 8 feet.

LA Co. Site Mitigation:

Facility ID: FA0024451
Status: Not reported
Site ID: SD0011658
Jurisdiction: Not reported
Case ID: RO0011658
Abated: Yes
Assigned To: Not reported
Entered Date: Not reported
Abated Date: 01/01/1998

I66
SSW
1/4-1/2
0.299 mi.
1580 ft.

Relative:
Higher

Actual:
26 ft.

KINDER MORGAN LIQUIDS TERMINALS, LLC
2000 E SEPULVEDA BLVD
CARSON, CA 90745

Site 2 of 4 in cluster I

CPS-SLIC **S101582614**
SWEEPS UST **N/A**
HIST UST
CA FID UST
CHMIRS
EMI
HAZNET
HWP

CPS-SLIC:
Region: STATE
Facility Status: Open - Site Assessment
Status Date: 08/17/2015
Global Id: T10000007280
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.806030473795
Longitude: -118.228833136902
Case Type: Cleanup Program Site
Case Worker: JYP
Local Agency: Not reported
RB Case Number: 1301
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern: Other Petroleum
Site History: Regional Board has overseen the site investigation and cleanup efforts at the Tesoro Pipeline #7 (California State Fire Marshall Case Number 1236). Tesoro's Line 7 is located at 2000 East Sepulveda Boulevard in Carson, California. The location is in the northeastern

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

corner of the Kinder Morgan Carson Terminal facility. Liquid phase hydrocarbon release was reported on August 5, 2013. The release point was identified as Jet Fuel (contents of Tesoro's Line 7) on August 18, 2013. Based on the inventory estimates, Tesoro estimates that a total of 164 barrels of Jet Aviation Fuel was released from Line 7. Since August 6, 2013, Kinder Morgan/Tesoro has made recovery efforts in the open excavation area of the release point. Tesoro obtained access from Kinder Morgan to conduct further investigation to define the vertical and lateral extent of the impacts associated with Line 7 release. Technical reports have been submitted to Regional Board for review.

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Status: Not reported
Comp Number: 293
Number: Not reported
Board Of Equalization: 44-007423
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-000293-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: Not reported
Number Of Tanks: 2

Status: Not reported
Comp Number: 293
Number: Not reported
Board Of Equalization: 44-007423
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-000293-000002
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

HIST UST:

File Number: 00026A5B
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026A5B.pdf>
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

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:](#)

CA FID UST:

Facility ID: 19000723
Regulated By: UTKI
Regulated ID: CAD010715
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2138305666
Mail To: Not reported
Mailing Address: 2000 E SEPULVEDA BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: CARSON 90745
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

CHMIRS:

OES Incident Number: 08-7101
OES notification: 10/01/2008
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

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
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:	Service Station
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1405
Year:	2008
Agency:	Kinder Morgan
Incident Date:	10/1/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Unknown Oil
Quantity Released:	1ft x 1ft
Unknown:	Not reported
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:	Due to a flange malfunction, oil was release onto asphalt and soil nearby.
OES Incident Number:	08-8690
OES notification:	12/05/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

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 Agency 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
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:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	0713
Year:	2008
Agency:	Kinder Morgan
Incident Date:	12/5/2008
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	3ft x 10ft
Unknown:	Not reported
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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Comments:	Not reported
Description:	A pipe header leaked causing a stain of oil on the ground measuring 3 feet by 10 feet.
OES Incident Number:	5-2811
OES notification:	05/11/2005
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	5/11/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Ethanol
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

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:	Per caller, a seal gave way causing a release. The area covered is a 5 foot by 5 foot .
OES Incident Number:	13-5202
OES notification:	08/22/2013
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
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:	Service Station
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	725
Year:	2013
Agency:	Kinder Morgan
Incident Date:	8/22/2013

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Admin Agency: LACoFD Health Haz-Mat
Amount: Not reported
Contained: Yes
Site Type: Not reported
E Date: Not reported
Substance: Gasoline
Quantity Released: Potential Release
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported
#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
Fataals: Not reported
Comments: Not reported
Description: POTENTIAL RELEASE: RP states that the results of a hydrotest on a station line indicates there may be a possible leak on a 3" line. Crews are on scene to perform an inspection of the line. At the time of this report, there is no release.

EMI:

Year: 1993
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 160
Reactive Organic Gases Tons/Yr: 147
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 160

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Reactive Organic Gases Tons/Yr: 147
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 278
Reactive Organic Gases Tons/Yr: 268
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 5
SOX - Oxides of Sulphur Tons/Yr: 3
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 1997
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 102
Reactive Organic Gases Tons/Yr: 90
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year: 1998
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 102
Reactive Organic Gases Tons/Yr: 90
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Year: 1999
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 102
Reactive Organic Gases Tons/Yr: 90
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 102
Reactive Organic Gases Tons/Yr: 90
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 3
SOX - Oxides of Sulphur Tons/Yr: 1
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2002
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 181
Reactive Organic Gases Tons/Yr: 170
Carbon Monoxide Emissions Tons/Yr: 6
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 3
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2003
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 181
Reactive Organic Gases Tons/Yr: 170
Carbon Monoxide Emissions Tons/Yr: 6
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 3
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 2004
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 180.5805715
Reactive Organic Gases Tons/Yr: 169.89
Carbon Monoxide Emissions Tons/Yr: 6.2473
NOX - Oxides of Nitrogen Tons/Yr: 6.5852
SOX - Oxides of Sulphur Tons/Yr: 2.503
Particulate Matter Tons/Yr: 0.55078
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.5

Year: 2005
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 120.9373450736
Reactive Organic Gases Tons/Yr: 114.11277419396744
Carbon Monoxide Emissions Tons/Yr: 1.0873
NOX - Oxides of Nitrogen Tons/Yr: 3.26902
SOX - Oxides of Sulphur Tons/Yr: .047575
Particulate Matter Tons/Yr: 1.47558
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.35021096

Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 117.4624701837170909
Reactive Organic Gases Tons/Yr: 88.734
Carbon Monoxide Emissions Tons/Yr: 1.244

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

NOX - Oxides of Nitrogen Tons/Yr: 1.861
SOX - Oxides of Sulphur Tons/Yr: 1.771
Particulate Matter Tons/Yr: 1.793
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.63326

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 91.20855471595387349
Reactive Organic Gases Tons/Yr: 88.734
Carbon Monoxide Emissions Tons/Yr: 1.244
NOX - Oxides of Nitrogen Tons/Yr: 1.861
SOX - Oxides of Sulphur Tons/Yr: 1.771
Particulate Matter Tons/Yr: 1.793
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.63326

Year: 2008
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 95.24458391713952788
Reactive Organic Gases Tons/Yr: 82.92512546865074192
Carbon Monoxide Emissions Tons/Yr: 1.1
NOX - Oxides of Nitrogen Tons/Yr: 3.5
SOX - Oxides of Sulphur Tons/Yr: 1.551775
Particulate Matter Tons/Yr: 1.008375
Part. Matter 10 Micrometers and Smlr Tons/Yr.:878815

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 71.533614795171204
Reactive Organic Gases Tons/Yr: 69.195863399999993
Carbon Monoxide Emissions Tons/Yr: 0.92000000000000004
NOX - Oxides of Nitrogen Tons/Yr: 3.4100000000000001
SOX - Oxides of Sulphur Tons/Yr: 1.2163999999999999
Particulate Matter Tons/Yr: 8.999999999999997E-2
Part. Matter 10 Micrometers and Smlr Tons/Yr:8.9520000000000002E-2

Year: 2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 89.142826616950899
Reactive Organic Gases Tons/Yr: 87.82723
Carbon Monoxide Emissions Tons/Yr: 1.3633299999999999
NOX - Oxides of Nitrogen Tons/Yr: 2.3775499999999998
SOX - Oxides of Sulphur Tons/Yr: 1.8206599999999999
Particulate Matter Tons/Yr: 0.38341999999999998
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.23224622

Year: 2011
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 78.606566522
Reactive Organic Gases Tons/Yr: 77.679692926
Carbon Monoxide Emissions Tons/Yr: 1.8164
NOX - Oxides of Nitrogen Tons/Yr: 3.6204333023
SOX - Oxides of Sulphur Tons/Yr: 1.69568
Particulate Matter Tons/Yr: 0.71268
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.5461713

Year: 2012
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 81.838772462
Reactive Organic Gases Tons/Yr: 80.47382
Carbon Monoxide Emissions Tons/Yr: 1.23005
NOX - Oxides of Nitrogen Tons/Yr: 3.37842
SOX - Oxides of Sulphur Tons/Yr: 1.6941
Particulate Matter Tons/Yr: 0.34147
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.3248156

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 79.771083294
Reactive Organic Gases Tons/Yr: 77.16649
Carbon Monoxide Emissions Tons/Yr: 0.03609
NOX - Oxides of Nitrogen Tons/Yr: 0.1536
SOX - Oxides of Sulphur Tons/Yr: 0.00223
Particulate Matter Tons/Yr: 0.01002
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.0098496

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 65.941533206
Reactive Organic Gases Tons/Yr: 60.797265
Carbon Monoxide Emissions Tons/Yr: 1.07042
NOX - Oxides of Nitrogen Tons/Yr: 2.050395
SOX - Oxides of Sulphur Tons/Yr: 0.59529
Particulate Matter Tons/Yr: 0.29645
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.290021605

Year: 2015
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 5171
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 101.5675712
Reactive Organic Gases Tons/Yr: 93.782651761
Carbon Monoxide Emissions Tons/Yr: 1.08960249
NOX - Oxides of Nitrogen Tons/Yr: 2.148881311
SOX - Oxides of Sulphur Tons/Yr: 0.618311561
Particulate Matter Tons/Yr: 0.302252856
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.2906238468

Year: 2016
County Code: 19
Air Basin: SC
Facility ID: 800057
Air District Name: SC
SIC Code: 4226
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 73.26300334
Reactive Organic Gases Tons/Yr: 65.039861953
Carbon Monoxide Emissions Tons/Yr: 0.475594
NOX - Oxides of Nitrogen Tons/Yr: 0.77038625

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

SOX - Oxides of Sulphur Tons/Yr: 0.19250452
Particulate Matter Tons/Yr: 0.111959
Part. Matter 10 Micrometers and Smllr Tons/Yr:0.108211072

HAZNET:

envid: S101582614
Year: 2016
GEPaid: CAC002865588
Contact: DAN SCHUELLER
Telephone: 9496780071
Mailing Name: Not reported
Mailing Address: 26000 COMMERCENTRE DR
Mailing City,St,Zip: LAKE FOREST, CA 92630
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Latex waste
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Tons: 0.125
Cat Decode: Latex waste
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Facility County: Los Angeles

envid: S101582614
Year: 2016
GEPaid: CAC002865588
Contact: DAN SCHUELLER
Telephone: 9496780071
Mailing Name: Not reported
Mailing Address: 26000 COMMERCENTRE DR
Mailing City,St,Zip: LAKE FOREST, CA 92630
Gen County: Los Angeles
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.0575
Cat Decode: Unspecified solvent mixture
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Los Angeles

HWP:

EPA Id: CAD010715837
Cleanup Status: CLOSED
Latitude: 33.80684
Longitude: -118.2322
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

KINDER MORGAN LIQUIDS TERMINALS, LLC (Continued)

S101582614

Public Information Officer: Not reported

Closure:
 EPA Id: CAD010715837
 Facility Type: Historical - Non-Operating
 Unit Names: Unit1
 Event Description: Closure Administrative - ISSUE CLOSURE VERIFICATION
 Actual Date: 12/20/2016

Alias:
 EPA Id: CAD010715837
 Facility Type: Historical - Non-Operating
 Alias Type: FRS
 Alias: 110002081826

I67
SSW
1/4-1/2
0.299 mi.
1580 ft.

GROUND WATER CLEANUP - CARSON
2000 SEPULVEDA
CARSON, CA 90810
Site 3 of 4 in cluster I

Toxic Pits
CHMIRS
ENF
NPDES
CIWQS

S100925072
N/A

Relative:
Higher
Actual:
26 ft.

TOXIC PITS:
 Region: 04
 Task #: 84021
 Owner: GATX TANK STORAGE TERMINALS
 1/2 Mi Limit: Y
 Num. of Pits: 3
 Cease Discharge Due: 06/01/90
 Cease Discharge Complete: / /
 Closure Due: 06/30/91
Closure Completed: 08/01/91
 Status: CLOSED
 Hydro Geological Assessment Report Due: / /
 Final Hydro Geological Assessment Review Completed: / /

CHMIRS:
 OES Incident Number: 7-0025
 OES notification: 01/02/2007
 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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	1/2/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Stain
Gallons:	0.000000
Unknown:	2
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:	Found a 2 foot stain under a pipeline possible cause by equipment failure
OES Incident Number:	13-0766
OES notification:	02/05/2013
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1250
Year:	2013
Agency:	Kinder Morgan
Incident Date:	2/5/2013
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Water and Glycol Mixture
Quantity Released:	3 feet x 4 feet
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Caller states: A seal on a pump went out causing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

the release.

OES Incident Number: 13-1839
OES notification: 03/26/2013
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 Agency 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
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: Other
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gal(s)
Other: Not reported
Date/Time: 1538
Year: 2013
Agency: Kinder Morgan
Incident Date: 3/26/2013
Admin Agency: LACoFD Health Haz-Mat
Amount: Not reported
Contained: Yes
Site Type: Not reported
E Date: Not reported
Substance: Gasoline
Quantity Released: 1,100
Unknown: Not reported
Substance #2: Not reported
Substance #3: Not reported
Evacuations: Not reported
Number of Injuries: Not reported
Number of Fatalities: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

#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:	Caller states: A gasoline truck was being loaded with 1,100 gallons of gasoline; however there was a quarter sized hole in the tank which is causing the gasoline to release to the ground. The release is to engineered containment. The release is being watered down to be collected into a storage tank.
OES Incident Number:	7-3763
OES notification:	06/22/2007
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Year: 2007
Agency: Kinder Morgan
Incident Date: 6/22/2007 12:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: Yes
Site Type: Other
E Date: Not reported
Substance: Crude oil
Gallons: 0.000000
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
Fatafs: Not reported
Comments: Not reported
Description: 06/22/07 at 0852 hrs, leak on a mixer for a tank.
Wetted an area of 3 feet by 2 feet.

OES Incident Number: 5-5674
OES notification: 09/29/2005
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 Agency 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
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	9/29/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Jet Fuel
Gallons:	2
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:	Caller advised possibly a vacuum truck spilled jet fuel.
OES Incident Number:	7-0838
OES notification:	02/07/2007
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

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MAP FINDINGS

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	2/7/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	Crude Oil
Gallons:	0.000000
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:	Unknown source. Area involved is 10 ft X 10 ft stain.
OES Incident Number:	7-6869
OES notification:	11/07/2007
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Kinder Morgan
Incident Date:	11/7/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude Oil and Water
Gallons:	0.000000
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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Fatals:	Not reported
Comments:	Not reported
Description:	11/07/07 at 1215 hrs, a pump seal gave way causing the spill.
OES Incident Number:	5-4134
OES notification:	07/13/2005
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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Kinder Morgan
Incident Date:	7/13/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	gasoline
BBLS:	1
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	Released due to a blown gasket on a line.
OES Incident Number:	7-0958
OES notification:	03/07/1997
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
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:	1997
Agency:	GATX Terminals Corp.

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Incident Date:	3/6/199712:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	gasoline/water
BBLS:	10
Gallons:	0.000000
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:	An above ground storage tank was being dewatered and a valve was left open. The valve has now been closed. the location is an above ground storage tank farm. Contamination was to soil only. Removal of the soil will begin next week.
OES Incident Number:	980
OES notification:	Not reported
OES Date:	11/1/1994
OES Time:	09:13:35 AM
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
Company Name:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	gatx
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	gatx
Incident Date:	1800/31oct94
Admin Agency:	Not reported
Amount:	max of 10 bbls
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	diesel fuel
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#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:	transfer line gasket failed -spill went to containment area
OES Incident Number:	08-3948
OES notification:	06/02/2008
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 Agency Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Industrial Plant
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1935
Year:	2008
Agency:	Kinder Morgan
Incident Date:	6/2/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Carb Diesel
Quantity Released:	Unknown
Unknown:	Not reported
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:	Caller states that a 150-200 feet long, 18inch wide pipe leaked. Was told that a sump overflow and water draw pot overflow occured causing the spill.
OES Incident Number:	7-0989
OES notification:	03/10/1997
OES Date:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	1997
Agency:	Gatx Terminals
Incident Date:	3/1/1997 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Water
Gallons:	110
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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	While doing a tank draw, a water draw look box overflowed.
OES Incident Number:	7-7519
OES notification:	12/05/2007
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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Kinder Morgan
Incident Date:	12/5/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude Oil
Gallons:	1' x 1' stain

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	A leaky gauge was the cause of this small release to the rock.
OES Incident Number:	08-2295
OES notification:	03/24/2008
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
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:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Date/Time:	1525
Year:	2008
Agency:	Kinder Morgan
Incident Date:	3/24/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	1ft x 2 ft
Unknown:	Not reported
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:	Water draw "pod" overflowed causing a small release onto the ground that resulted in a 1 ft by 2 ft area of soil becoming stained with gasoline.
OES Incident Number:	3-0704
OES notification:	02/06/2003
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 Agency 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

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EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	2003
Agency:	Kinder Morgan
Incident Date:	2/2/2003 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Gasoline H2O mix
Gallons:	35
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:	Valve left open on water draw vault, caused release of gasoline and water mix.
OES Incident Number:	08-2243
OES notification:	03/22/2008
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

Map ID
Direction
Distance
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Resp Agency 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
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:	Other
Cleanup By:	Responsible Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	0100
Year:	2008
Agency:	Kinder-Morgan
Incident Date:	3/22/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Mixed Fuels
Quantity Released:	5
Unknown:	Not reported
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:	A bad valve caused a slow leak out of a sample pot.
OES Incident Number:	70
OES notification:	Not reported
OES Date:	2/5/1994

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

OES Time:	01:22:10 PM
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	gatex to clean up
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	gatex
Incident Date:	0750 5 feb 94
Admin Agency:	Not reported
Amount:	175 bbl
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	crude
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	pipe line leak in terminal area, all material in secondary containment.
OES Incident Number:	5-6630
OES notification:	11/16/2005
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	11/16/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude Oil
Gallons:	1
Unknown:	0

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	Substance was released during a drain-up of an internal line. Substance splashed out of the drain pan. Substance released covered an area 2Ft X 2Ft. Substance has been cleaned up.
OES Incident Number:	08-7805
OES notification:	10/29/2008
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 Agency 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
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:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Other:	Not reported
Date/Time:	1640
Year:	2008
Agency:	NRC
Incident Date:	10/29/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	Unknown
Unknown:	Not reported
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:	Per the NRC Report, the caller is reporting a discharge of crude oil mixed with water onto the ground from a hose on a vacuum truck due to the hose leaking. The NRC report indicates that the spill has been cleaned up.
OES Incident Number:	5-6308
OES notification:	11/01/2005
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	11/1/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Trans Mix (Diesel & Mix)
Gallons:	0.000000
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:	Unknown amount covering a 15 by 20 ft. area. A vacuum truck backed into a pipe fitting and broke off the 1/2 inch pipe fitting.
OES Incident Number:	08-7302
OES notification:	10/08/2008
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

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Pipe Line
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	2100
Year:	2008
Agency:	Kinder Morgan
Incident Date:	10/8/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Contaminated Water, Possible Petroleum product.
Quantity Released:	Unk
Unknown:	Not reported
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:	RP states that during a pressure test of a line, there was a discharge of water with possible contamination from prior petroleum product used.

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

The size of the release was 20' long and about 1' wide.

OES Incident Number:	7-2147
OES notification:	04/05/2007
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder-Morgan
Incident Date:	4/5/2007 12:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Water / Gasoline Mix
Gallons:	UNK
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Fataals: Not reported
Comments: Not reported
Description: 5' x 5' stain on the ground caused by pinhole in a 2" drain line.

OES Incident Number: 10-3654
OES notification: 06/15/2010
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
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: Service Station
Cleanup By: Contractor
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Gal(s)
Other: Not reported
Date/Time: 1855
Year: 2010
Agency: Kinder Morgan
Incident Date: 6/15/2010
Admin Agency: LACoFD Health Haz-Mat

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MAP FINDINGS

Site

Database(s)

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel Fuel with water mixture
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Caller release from a storage tank onto the gravel area covering approximately 7 feet area.
OES Incident Number:	72
OES notification:	Not reported
OES Date:	1/16/1994
OES Time:	09:39:07 PM
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	GATX

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Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	GATX
Incident Date:	1/16/94 1900
Admin Agency:	Not reported
Amount:	15 BBLs
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	crude
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#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:	LINE OVERPRESSURIZED RELIEF VALVE OVER FILLED SUMP IN FUEL STORAGE AREA.
OES Incident Number:	8-4220
OES notification:	09/15/1998
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

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
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:	GATX
Incident Date:	9/15/199812:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude Oil
BBLS:	35
Gallons:	0.000000
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:	Occurred at a Storage terminal which stores product for refineries. Possibly occurred due to corrosion leak from an underground line. Noticed crude on ground, began excavating and discovered leak.
OES Incident Number:	9-1061
OES notification:	03/07/1999
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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 Agency Personnel # Of Decontaminated:	Not reported
Responding Agency Personnel # Of Injuries:	Not reported
Responding Agency Personnel # 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
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 and contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	GATX Terminals
Incident Date:	3/7/199912:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	transmix
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:	Release is contained to the terminal. Caused by a

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MAP FINDINGS

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

tank overflow.

OES Incident Number: 8-2081
OES notification: 05/04/1998
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 Agency 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
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: GATX Corp
Incident Date: 5/4/1998 12:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: Yes
Site Type: Refinery, Other
E Date: Not reported
Substance: Crude Oil
BBLs: 20
Gallons: 0.000000
Unknown: 0
Substance #2: Not reported
Substance #3: Not reported
Evacuations: 0
Number of Injuries: 0

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	Gasket failer on pump caused crude to fall to soil, contained in earthen berm; vactor cleanup underway.
OES Incident Number:	08-1297
OES notification:	02/13/2008
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
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:	Pipe Line
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1040
Year:	2008
Agency:	Exon Mobil Pipeline
Incident Date:	2/13/2008

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Site

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	crude oil
Quantity Released:	1
Unknown:	Not reported
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:	02/13/08 at 1040 hours, they displacing a line and it opened releasing crude oil.
OES Incident Number:	7-4244
OES notification:	10/23/1997
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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	GATX Tank Storage Terminals Corp.
Incident Date:	10/17/1997 12:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	crude oil
Gallons:	55
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:	Sump overflowed. Investigation in process
OES Incident Number:	7-1919
OES notification:	03/26/2007
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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	3/26/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Gasoline
Gallons:	0.000000
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:	03/26/07 at 1508 hours, Kinder Morgan personnel noticed a 3 foot by 3 foot stain of gasoline under a valve.
OES Incident Number:	7-0987
OES notification:	02/14/2007
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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	2/14/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	Diesel
Gallons:	0.000000
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:	A 3' X 1' area. A water draw was filling a pump.

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Product started burping from the pot onto the ground.

OES Incident Number:	7-0894
OES notification:	02/09/2007
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	2/9/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Gas Blend Stock
Gallons:	Unknown
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0

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Site

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 EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	A Pump's engineered containment barrier leaked on to the ground.
OES Incident Number:	08-6912
OES notification:	09/23/2008
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 Agency 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
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:	Refinery
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1534
Year:	2008
Agency:	Kinder Morgan
Incident Date:	9/23/2008
Admin Agency:	L. A. County Fire Prevention

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Ethynol
Quantity Released:	2' x 2' st
Unknown:	Not reported
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:	A leaky flange is the cause of this very small release to the soil. The release occurred on a pipeline inside the terminal.
OES Incident Number:	7-1057
OES notification:	02/16/2007
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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	2007
Agency:	Kinder Morgan, Carson Storage Facility
Incident Date:	2/16/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Crude Oil
Gallons:	0.000000
Quarts:	1
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:	Baker containment bin leaked crude oil onto the ground.
OES Incident Number:	7-2966
OES notification:	05/15/2007
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 Agency 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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2007
Agency:	Kinder Morgan
Incident Date:	5/15/2007 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Industrial Plant
E Date:	Not reported
Substance:	Jet Fuel
Gallons:	1
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:	05/15/07 at 2018 hours, water draw box left filled and expansion due to sun cause it to overflow into a bermed area..
OES Incident Number:	5-5072
OES notification:	08/30/2005
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported
Agency Id Number:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	Kinder Morgan
Incident Date:	8/30/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	Threatened release
Gallons:	0.000000
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

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Comments:	Not reported
Description:	Per caller an above ground tank was taken out of service and upon inspection a rivet at the bottom of the tank was found to have topside corrosion, The head was missing.
OES Incident Number:	7-1792
OES notification:	03/20/2007
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2007
Agency:	Kinder Morgan, Carson
Incident Date:	3/20/2007 12:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	No
Site Type:	Refinery
E Date:	Not reported
Substance:	Crude Oil
Gallons:	Unknown
Unknown:	0
Substance #2:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	While doing a daily normally scheduled walk-around some operators at the facility noticed the spill. The spill has occurred in a dirtied area on the facility. Spill is 15' x 30'.
OES Incident Number:	4-0145
OES notification:	01/09/2014
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
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:	Other
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	725
Year:	2014
Agency:	Kinder Morgan
Incident Date:	1/9/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	100
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Unknown
Fatals:	No
Comments:	Not reported
Description:	RP states that a storage tank was discovered to be leaking due to unknown reasons resulting in the release of less than 100 gallons of crude oil onto the ground. The release is not contained and is still leaking at a trickling rate. Caller states that absorbent pads have been applied to absorb the release. No waterways have been impacted.
OES Incident Number:	12-7012
OES notification:	11/19/2012
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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Ground water
Spill Site:	Other
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1555
Year:	2012
Agency:	Kinder Morgan
Incident Date:	11/19/2012
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Ground water
E Date:	Not reported
Substance:	Potential Petroleum Release
Quantity Released:	Unk
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	RP states that an increase of product thickness in a ground water monitoring well has prompted a further investigation. Release if any is contained to the facility.
OES Incident Number:	08-5895
OES notification:	08/13/2008
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1620
Year:	2008
Agency:	Kinder Morgan Carson
Incident Date:	8/13/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Slop Crude/Oil
Quantity Released:	2
Unknown:	Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A bleeder was cracked open on a pump causing this release. The release was contained in a containment area - it caused a 2' x 3' spot on the ground.
OES Incident Number:	08-5415
OES notification:	07/24/2008
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 Agency 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
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:	Other
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	2025
Year:	2008
Agency:	Kinder Morgan
Incident Date:	7/24/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gear Oil
Quantity Released:	Unknown

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Unknown:	Not reported
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:	Caller states a stain of gear oil is on the ground. Caller states the stain is 2 inches X 3 inches. Caller states substance released due to a faulty seal on the gearbox.
OES Incident Number:	08-5411
OES notification:	07/24/2008
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
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:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Measure:	Unknown
Other:	Not reported
Date/Time:	1740
Year:	2008
Agency:	Kinder Morgan
Incident Date:	7/24/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Crude Oil
Quantity Released:	Unknown
Unknown:	Not reported
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:	Caller states there is a 1.5 Ft X 1.5 Ft oil stain on the gravel.
OES Incident Number:	6-5451
OES notification:	09/13/2006
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 Agency 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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	Kinder Morgan
Incident Date:	9/13/2006 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	crude oil
Gallons:	5
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:	They discovered a spot, 2-ft by 3-ft, due to a drain backing up.
OES Incident Number:	08-2979
OES notification:	04/22/2008
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Resp Agency Personnel # Of Decontaminated:	Not reported
Responding Agency Personnel # Of Injuries:	Not reported
Responding Agency Personnel # 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
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:	Industrial Plant
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1600
Year:	2008
Agency:	Kinder Morgan
Incident Date:	4/22/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	10' x 3' s
Unknown:	Not reported
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:	A vacuum breaker malfunctioned causing this release to the ground.
OES Incident Number:	08-7320
OES notification:	10/09/2008
OES Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Merchant/Business
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1505
Year:	2008
Agency:	Kinder Morgan
Incident Date:	10/9/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	8ft circle
Unknown:	Not reported
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	A dome mount failure caused the release.
OES Incident Number:	3-5654
OES notification:	10/31/2003
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2003
Agency:	Kinder Morgan
Incident Date:	10/31/200312:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Crude
Gallons:	0.000000
Unknown:	0

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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:	Unknown size pipeline leaked and left a puddle of crude 20' x 60'.
OES Incident Number:	6-5046
OES notification:	08/23/2006
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Ancon Marine Inc
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Year:	2006
Agency:	Kinder Morgan
Incident Date:	8/23/2006 12:00:00 AM
Admin Agency:	ERROR: Server error: Entry not found in index
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported
Substance:	JET FUEL
Gallons:	0.000000
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:	Drain valve leaking from a tank. Seeped onto the ground creating a 3 ft. x 3 ft. area.
OES Incident Number:	9-4330
OES notification:	10/11/1999
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 Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	storm drain
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	GATX Terminals Corp
Incident Date:	10/11/199912:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Unknown
Site Type:	Oil Field
E Date:	Not reported
Substance:	Crude Oil
BBLS:	25
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:	Pipeline release was on the western border of bulk storage and transfer facility and then flowed onto Alameda St then into 2 storm drains. Leads into the Dominguez Channel.
OES Incident Number:	08-1479
OES notification:	02/21/2008
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 Agency Personel # Of Decontaminated:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Other
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1015
Year:	2008
Agency:	Kinder Morgan
Incident Date:	2/21/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	diesel
Quantity Released:	2 ft stain
Unknown:	Not reported
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:	RP States: A valve body gasket failure caused a release to the ground, causing a 2 foot circle stain. The site is a bulk storage terminal.
OES Incident Number:	13-4827
OES notification:	08/05/2013
OES Date:	Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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
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:	Pipe Line
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	1420
Year:	2013
Agency:	Kinder Morgan
Incident Date:	8/5/2013
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	UNK
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

#3 Vessel >= 300 Tons: Not reported
Evacs: Not reported
Injuries: Not reported
Fataals: Not reported
Comments: Not reported
Description: Caller states: The release occurred in a valve box on a pipeline. The valve box is 5 feet x 6 feet in diameter. The release was to primary containment (the valve box). There was no impact to the ground or any waterways.

ENF:

Region: 4
Facility Id: 229321
Agency Name: Kinder Morgan Liquids Terminals, LLC
Place Type: Manufacturing
Place Subtype: Petroleum Refinery
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 33.807155000000
Place Longitude: -118.231666
SIC Code 1: 2911
SIC Desc 1: Petroleum Refining
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: UNREGS
Program Category1: UNREGS
Program Category2: Not reported
Of Programs: 1
WDID: 4B192238N03
Reg Measure Id: 149765
Reg Measure Type: Unregulated
Region: 4
Order #: Not reported
Npdes# CA#: Not reported
Major-Minor: Not reported
Npdes Type: Not reported
Reclamation: Not reported

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Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/21/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	220104
Region:	4
Order / Resolution Number:	CAO
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	11/06/1990
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/06/1990
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4B192238N03
Description:	TO IMPLEMENT THE GROUND WATER CLEANUP ACCORDING TO THE TIME SCHEDULE.
Program:	UNREGS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
NPDES:	
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:	4 19C360739
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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: 11/04/2013
Operator Name: Kinder Morgan Energy Partners
Operator Address: 1100 Town and Country Road
Operator City: Orange
Operator State: California
Operator Zip: 92868

NPDES as of 03/2018:

NPDES Number: Not reported
Status: Not reported
Agency Number: Not reported
Region: 4
Regulatory Measure ID: 412884
Order Number: Not reported
Regulatory Measure Type: Construction
Place ID: Not reported
WDID: 4 19C360739
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: 10/07/2013
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
Received Date: 03/23/2011
Processed Date: 04/06/2011
Status: Terminated
Status Date: 11/04/2013
Place Size: 97.8
Place Size Unit: Acres
Contact: Hamid Madjidi
Contact Title: Project Manager
Contact Phone: 714-560-4633
Contact Phone Ext: 4633
Contact Email: hamid_madjidi@kindermorgan.com
Operator Name: Kinder Morgan Energy Partners
Operator Address: 1100 Town and Country Road
Operator City: Orange
Operator State: California
Operator Zip: 92868
Operator Contact: Allan Campbell
Operator Contact Title: Permitting Director
Operator Contact Phone: 714-560-4967
Operator Contact Phone Ext: Not reported
Operator Contact Email: allan_campbell@kindermorgan.com
Operator Type: Private Business
Developer: SFPP LP
Developer Address: Sand Canyon Avenue at Rail Road Crossing

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Developer City:	Irvine
Developer State:	California
Developer Zip:	92618
Developer Contact:	Allan Campbell
Developer Contact Title:	Permitting Director
Constype Linear Utility Ind:	N
Emergency Phone:	714-560-4633
Emergency Phone Ext:	4633
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 Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Y
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
Receiving Water Name:	Dominguez Channel
Certifier:	Allan Campbell
Certifier Title:	Not reported
Certification Date:	23-MAR-11
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
Facility Status:	Historical
NPDES Number:	CA0056863
Region:	4
Agency Number:	24865
Regulatory Measure ID:	377786
Place ID:	217067
Order Number:	R4-2011-0100
WDID:	4B192238002
Regulatory Measure Type:	NPDES Permits
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	06/02/2011
Effective Date Of Regulatory Measure:	07/02/2011
Termination Date Of Regulatory Measure:	01/31/2017
Expiration Date Of Regulatory Measure:	05/10/2016
Discharge Address:	1100 Town & Country Road 700
Discharge Name:	Kinder Morgan Liquids Terminals, LLC
Discharge City:	Orange
Discharge State:	CA
Discharge Zip:	92868
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
NPDES as of 03/2018:
NPDES Number: CA0056863
Status: Historical
Agency Number: 24865
Region: 4
Regulatory Measure ID: 377786
Order Number: R4-2011-0100
Regulatory Measure Type: NPDES Permits
Place ID: 217067
WDID: 4B192238002
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 06/02/2011
Effective Date Of Regulatory Measure: 07/02/2011
Expiration Date Of Regulatory Measure: 05/10/2016
Termination Date Of Regulatory Measure: 01/31/2017
Discharge Name: Kinder Morgan Liquids Terminals, LLC
Discharge Address: 1100 Town & Country Road 700
Discharge City: Orange
Discharge State: CA
Discharge Zip: 92868
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported

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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial 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:	CA0056863
Status:	Active
Agency Number:	24865
Region:	4
Regulatory Measure ID:	404032
Order Number:	R4-2016-0360
Regulatory Measure Type:	NPDES Permits
Place ID:	217067
WDID:	4B192238002
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	12/08/2016
Effective Date Of Regulatory Measure:	02/01/2017
Expiration Date Of Regulatory Measure:	01/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Kinder Morgan Liquids Terminals, LLC
Discharge Address:	1100 Town & Country Road 700
Discharge City:	Orange
Discharge State:	CA
Discharge Zip:	92868
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported

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EDR ID Number
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GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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 Commercial 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

Facility Status: Active
NPDES Number: CA0056863
Region: 4
Agency Number: 24865
Regulatory Measure ID: 404032
Place ID: 217067
Order Number: R4-2016-0360
WDID: 4B192238002
Regulatory Measure Type: NPDES Permits
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 12/08/2016
Effective Date Of Regulatory Measure: 02/01/2017
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: 01/31/2022

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Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Discharge Address: 1100 Town & Country Road 700
Discharge Name: Kinder Morgan Liquids Terminals, LLC
Discharge City: Orange
Discharge State: CA
Discharge Zip: 92868
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: CA0056863
Status: Historical
Agency Number: 24865
Region: 4
Regulatory Measure ID: 377786
Order Number: R4-2011-0100
Regulatory Measure Type: NPDES Permits
Place ID: 217067
WDID: 4B192238002
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 06/02/2011
Effective Date Of Regulatory Measure: 07/02/2011
Expiration Date Of Regulatory Measure: 05/10/2016
Termination Date Of Regulatory Measure: 01/31/2017

Discharge Name: Kinder Morgan Liquids Terminals, LLC
Discharge Address: 1100 Town & Country Road 700
Discharge City: Orange
Discharge State: CA
Discharge Zip: 92868
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported

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Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

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 Commercial 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:	CA0056863
Status:	Active
Agency Number:	24865
Region:	4
Regulatory Measure ID:	404032
Order Number:	R4-2016-0360
Regulatory Measure Type:	NPDES Permits
Place ID:	217067
WDID:	4B192238002
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	12/08/2016
Effective Date Of Regulatory Measure:	02/01/2017
Expiration Date Of Regulatory Measure:	01/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Kinder Morgan Liquids Terminals, LLC
Discharge Address:	1100 Town & Country Road 700
Discharge City:	Orange
Discharge State:	CA
Discharge Zip:	92868
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported

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Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial 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

CIWQS:

Agency: Kinder Morgan Liquids Terminals, LLC
Agency Address: 1100 Town & Country Road 700, Orange, CA 92868
Place/Project Type: Tank Farm
SIC/NAICS: Multiple SIC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Region: 4
Program: LNDISP, NPDESWW, NPDNONMUNIPRCS
Regulatory Measure Status: Active
Regulatory Measure Type: NPDES Permit
Order Number: R4-2016-0360
WDID: 4B192238002
NPDES Number: CA0056863
Adoption Date: 12/08/2016
Effective Date: 02/01/2017
Termination Date: Not reported
Expiration/Review Date: 01/31/2022
Design Flow: 0.25
Major/Minor: Minor
Complexity: C
TTWQ: 2
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.807155
Longitude: -118.231666

Agency: Kinder Morgan Energy Partners
Agency Address: 1100 Town and Country Road, Orange, CA 92868
Place/Project Type: Construction - Industrial
SIC/NAICS: Not reported
Region: 4
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 4 19C360739
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 04/06/2011
Termination Date: 10/07/2013
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported
TTWQ: Not reported
Enforcement Actions within 5 years: 0
Violations within 5 years: 0
Latitude: 33.480958
Longitude: -118.140198

Agency: Kinder Morgan Energy Partners
Agency Address: 1100 Town and Country Road, Orange, CA 92868
Place/Project Type: Construction - Industrial
SIC/NAICS: Not reported
Region: 4
Program: CONSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water construction
Order Number: 2009-0009-DWQ
WDID: 4 19C359627
NPDES Number: CAS000002
Adoption Date: Not reported
Effective Date: 10/04/2010

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GROUND WATER CLEANUP - CARSON (Continued)

S100925072

Termination Date: 03/05/2012
 Expiration/Review Date: Not reported
 Design Flow: Not reported
 Major/Minor: Not reported
 Complexity: Not reported
 TTWQ: Not reported
 Enforcement Actions within 5 years: 0
 Violations within 5 years: 0
 Latitude: 33.480958
 Longitude: -118.140198

**I68
 SSW
 1/4-1/2
 0.299 mi.
 1580 ft.**

**CARSON TERMINAL
 2000 EAST SEPULVEDA BOULEVARD
 CARSON, CA 90810**

**CPS-SLIC S106386910
 ENF N/A**

Site 4 of 4 in cluster I

**Relative:
 Higher
 Actual:
 26 ft.**

SLIC REG 4:
 Region: 4
 Facility Status: Remediation
 SLIC: 0045
 Substance: TPH
 Staff: PC

ENF:

Region: 4
 Facility Id: 217067
 Agency Name: Kinder Morgan Liquids Terminals, LLC
 Place Type: Industrial and Commercial Services
 Place Subtype: Tank Farm
 Facility Type: Industrial
 Agency Type: Privately-Owned Business
 # Of Agencies: 1
 Place Latitude: 33.807155000000
 Place Longitude: -118.231666
 SIC Code 1: 1311
 SIC Desc 1: Crude Petroleum and Natural Gas
 SIC Code 2: 4226
 SIC Desc 2: Special Warehousing and Storage, NEC
 SIC Code 3: 2911
 SIC Desc 3: Petroleum Refining
 NAICS Code 1: Not reported
 NAICS Desc 1: Not reported
 NAICS Code 2: Not reported
 NAICS Desc 2: Not reported
 NAICS Code 3: Not reported
 NAICS Desc 3: Not reported
 # Of Places: 1
 Source Of Facility: Reg Meas
 Design Flow: 2.5
 Threat To Water Quality: 2
 Complexity: C
 Pretreatment: X - Facility is not a POTW
 Facility Waste Type: Stormwater runoff
 Facility Waste Type 2: Not reported
 Facility Waste Type 3: Not reported
 Facility Waste Type 4: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Program: NPDNONMUNIPRCS
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192238002
Reg Measure Id: 298541
Reg Measure Type: NPDES Permits
Region: 4
Order #: R4-2006-0032
Npdes# CA#: CA0056863
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: Not reported
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 01/28/2014
Effective Date: 03/09/2006
Expiration/Review Date: 03/09/2011
Termination Date: 07/01/2011
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 389925
Region: 4
Order / Resolution Number: R4-2013-0051
Enforcement Action Type: Admin Civil Liability
Effective Date: 07/01/2013
Adoption/Issuance Date: 07/01/2013
Achieve Date: Not reported
Termination Date: 08/05/2013
ACL Issuance Date: Not reported
EPL Issuance Date: 04/18/2013
Status: Historical
Title: ACL R4-2013-0051 for Kinder Morgan Liquids Terminal, LLC
Description: EPL in the amount of \$30,000 for 10 MMPs
Program: NPDNONMUNIPRCS
Latest Milestone Completion Date: 2013-08-05
Of Programs1: 1
Total Assessment Amount: 30000
Initial Assessed Amount: 30000
Liability \$ Amount: 30000
Project \$ Amount: 0
Liability \$ Paid: 30000
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 30000

Region: 4
Facility Id: 217067

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Agency Name: Kinder Morgan Liquids Terminals, LLC
Place Type: Industrial and Commercial Services
Place Subtype: Tank Farm
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 33.807155000000
Place Longitude: -118.231666
SIC Code 1: 1311
SIC Desc 1: Crude Petroleum and Natural Gas
SIC Code 2: 4226
SIC Desc 2: Special Warehousing and Storage, NEC
SIC Code 3: 2911
SIC Desc 3: Petroleum Refining
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 2.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Stormwater runoff
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDNONMUNIPRCS
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192238002
Reg Measure Id: 298541
Reg Measure Type: NPDES Permits
Region: 4
Order #: R4-2006-0032
Npdes# CA#: CA0056863
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: Not reported
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 01/28/2014
Effective Date: 03/09/2006
Expiration/Review Date: 03/09/2011
Termination Date: 07/01/2011
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	372928
Region:	4
Order / Resolution Number:	R4-2010-0007-M
Enforcement Action Type:	Admin Civil Liability
Effective Date:	02/03/2010
Adoption/Issuance Date:	06/30/2010
Achieve Date:	Not reported
Termination Date:	07/23/2010
ACL Issuance Date:	06/30/2010
EPL Issuance Date:	02/03/2010
Status:	Historical
Title:	EPL R4-2010-0007-M for \$18,000 issued 2/3/10 for 7 effluent violations.
Description:	EPL R4-2010-0007-M for \$18,000 issued 2/3/10 for 7 effluent violations. MMP amt for 7 effluent violations: \$18,000 to CAA.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2010-07-26
# Of Programs1:	1
Total Assessment Amount:	18000
Initial Assessed Amount:	18000
Liability \$ Amount:	18000
Project \$ Amount:	0
Liability \$ Paid:	18000
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	18000
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	298541
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	R4-2006-0032
Npdes# CA#:	CA0056863
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	01/28/2014
Effective Date:	03/09/2006
Expiration/Review Date:	03/09/2011
Termination Date:	07/01/2011
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	354673
Region:	4
Order / Resolution Number:	R4-2008-0090-M
Enforcement Action Type:	Admin Civil Liability
Effective Date:	10/17/2008
Adoption/Issuance Date:	07/28/2009
Achieve Date:	Not reported
Termination Date:	08/12/2009
ACL Issuance Date:	10/17/2008
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Expedited Settlement Ltr sent 10/17/08 for 17 effluent violations.
Description:	Expedited Settlement Ltr sent 10/17/08 for 17 effluent violations. MMP amt for 12 eligible effluent violations: \$36,000 to CAA. Stipulated order for \$36,000 sent 7/28/09.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2009-08-12
# Of Programs1:	1
Total Assessment Amount:	36000
Initial Assessed Amount:	36000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Liability \$ Amount:	36000
Project \$ Amount:	0
Liability \$ Paid:	36000
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	36000
Region:	4
Facility Id:	217067
Agency Name:	Not reported
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	Not reported
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	352611
Region:	4
Order / Resolution Number:	R4-2006-0033
Enforcement Action Type:	Time Schedule Order
Effective Date:	03/09/2006
Adoption/Issuance Date:	03/09/2006
Achieve Date:	Not reported
Termination Date:	06/05/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	TSO R4-2006-0033 adopted 3/9/06 contains interim limits for Cu & Zn.
Description:	TSO R4-2006-0033 adopted 3/9/06 contains interim limits for Cu & Zn until 6/5/08.
Program:	WDR
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	377786
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	R4-2011-0100
Npdes# CA#:	CA0056863
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/01/2017
Effective Date:	07/02/2011
Expiration/Review Date:	05/10/2016
Termination Date:	01/31/2017
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	389863
Region:	4
Order / Resolution Number:	Not reported
Enforcement Action Type:	Notice of Violation
Effective Date:	04/12/2013
Adoption/Issuance Date:	04/12/2013
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	NOV 04/12/2013 for Kinder Morgan Liquids Terminal, LLC
Description:	NOV for deficient reporting and monitoring violations in 2nd and 4th quarters 2012. Forgot to note missing flow and

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

temp data in NOV so those violations are not linked.
Program: NPDNONMUNIPRCS
Latest Milestone Completion Date: 2013-04-30
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Region: 4
Facility Id: 217067
Agency Name: Kinder Morgan Liquids Terminals, LLC
Place Type: Industrial and Commercial Services
Place Subtype: Tank Farm
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 33.807155000000
Place Longitude: -118.231666
SIC Code 1: 1311
SIC Desc 1: Crude Petroleum and Natural Gas
SIC Code 2: 4226
SIC Desc 2: Special Warehousing and Storage, NEC
SIC Code 3: 2911
SIC Desc 3: Petroleum Refining
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 2.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Stormwater runoff
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDNONMUNIPRCS
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192238002
Reg Measure Id: 377786
Reg Measure Type: NPDES Permits
Region: 4
Order #: R4-2011-0100
Npdes# CA#: CA0056863
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	02/01/2017
Effective Date:	07/02/2011
Expiration/Review Date:	05/10/2016
Termination Date:	01/31/2017
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	379678
Region:	4
Order / Resolution Number:	R4-2011-0101
Enforcement Action Type:	Time Schedule Order
Effective Date:	06/02/2011
Adoption/Issuance Date:	06/02/2011
Achieve Date:	Not reported
Termination Date:	06/02/2014
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	TSO R4-2011-0101 (CI 5244), Kinder Morgan Liquids Terminal, LLC
Description:	Carson Terminal
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	148241
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-087
Npdes# CA#:	CA0056863
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	400
Status:	Historical
Status Date:	03/08/2006
Effective Date:	06/29/2000
Expiration/Review Date:	06/29/2005
Termination Date:	03/08/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	305388
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	08/12/2005
Adoption/Issuance Date:	08/12/2005
Achieve Date:	Not reported
Termination Date:	09/12/2005
ACL Issuance Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

EPL Issuance Date:	Not reported
Status:	Historical
Title:	CI 5244 NOV (08/12/2005)
Description:	NOV sent 08/12/2005 for 16 effluent limit violaitons of turbidity, benzene, toluene, xylenes, Cu, OG pH, TSS, and SS during 1Q03 through 1Q05 monitoring periods.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	148241
Reg Measure Type:	NPDES Permits
Region:	4

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Order #: 00-087
Npdes# CA#: CA0056863
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: 400
Status: Historical
Status Date: 03/08/2006
Effective Date: 06/29/2000
Expiration/Review Date: 06/29/2005
Termination Date: 03/08/2006
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: Not reported
Direction/Voice: Passive
Enforcement Id(EID): 253175
Region: 4
Order / Resolution Number: R4-2004-0132
Enforcement Action Type: Admin Civil Liability
Effective Date: 09/13/2004
Adoption/Issuance Date: 09/13/2004
Achieve Date: Not reported
Termination Date: 10/20/2004
ACL Issuance Date: 09/13/2004
EPL Issuance Date: Not reported
Status: Historical
Title: CI 5244 MMP R4-2004-0132 (09/13/04)
Description: Mandatory Migden Penalty Complaint R4-2004-0132 for \$3,000 issued 9/13/04 for late submittal of 4Q03 DMR.
Program: NPDESWW
Latest Milestone Completion Date: 2004-10-20
Of Programs1: 1
Total Assessment Amount: 3000
Initial Assessed Amount: 0
Liability \$ Amount: 3000
Project \$ Amount: 0
Liability \$ Paid: 3000
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 3000
Region: 4
Facility Id: 217067
Agency Name: Kinder Morgan Liquids Terminals, LLC
Place Type: Industrial and Commercial Services
Place Subtype: Tank Farm
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: 33.807155000000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Place Longitude: -118.231666
SIC Code 1: 1311
SIC Desc 1: Crude Petroleum and Natural Gas
SIC Code 2: 4226
SIC Desc 2: Special Warehousing and Storage, NEC
SIC Code 3: 2911
SIC Desc 3: Petroleum Refining
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 2.5
Threat To Water Quality: 2
Complexity: C
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Stormwater runoff
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDESWW
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192238002
Reg Measure Id: 148241
Reg Measure Type: NPDES Permits
Region: 4
Order #: 00-087
Npdes# CA#: CA0056863
Major-Minor: Minor
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: 400
Status: Historical
Status Date: 03/08/2006
Effective Date: 06/29/2000
Expiration/Review Date: 06/29/2005
Termination Date: 03/08/2006
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: Not reported
Direction/Voice: Passive
Enforcement Id(EID): 242855
Region: 4
Order / Resolution Number: R4-2003-0078

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Enforcement Action Type:	Time Schedule Order
Effective Date:	06/05/2003
Adoption/Issuance Date:	06/05/2003
Achieve Date:	Not reported
Termination Date:	03/08/2006
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CI-5244 TSO R4-2003-0078 (06/05/03)
Description:	TSO R4-2003-0078 adopted 6/5/03 requires the discharger to meet effluent limits for pH, turbidity, zinc & copper by 6/5/08. Mailed 6/12/03.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC
Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	148241
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-087
Npdes# CA#:	CA0056863
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	400
Status:	Historical
Status Date:	03/08/2006
Effective Date:	06/29/2000
Expiration/Review Date:	06/29/2005
Termination Date:	03/08/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	239599
Region:	4
Order / Resolution Number:	R4-2001-0098
Enforcement Action Type:	Admin Civil Liability
Effective Date:	11/19/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/19/2003
ACL Issuance Date:	11/19/2001
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CI-5244 MMP 01-098 for \$36,000 (11/19/01)
Description:	MMP Complaint No. 01-098 for \$36,000 issued 11/19/01 for permit effluent violations.
Program:	NPDESWW
Latest Milestone Completion Date:	2003-02-17
# Of Programs1:	1
Total Assessment Amount:	36000
Initial Assessed Amount:	0
Liability \$ Amount:	33000
Project \$ Amount:	0
Liability \$ Paid:	33000
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	36000
Region:	4
Facility Id:	217067
Agency Name:	Kinder Morgan Liquids Terminals, LLC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Place Type:	Industrial and Commercial Services
Place Subtype:	Tank Farm
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	33.807155000000
Place Longitude:	-118.231666
SIC Code 1:	1311
SIC Desc 1:	Crude Petroleum and Natural Gas
SIC Code 2:	4226
SIC Desc 2:	Special Warehousing and Storage, NEC
SIC Code 3:	2911
SIC Desc 3:	Petroleum Refining
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	2.5
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Stormwater runoff
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192238002
Reg Measure Id:	148241
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	00-087
Npdes# CA#:	CA0056863
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	400
Status:	Historical
Status Date:	03/08/2006
Effective Date:	06/29/2000
Expiration/Review Date:	06/29/2005
Termination Date:	03/08/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CARSON TERMINAL (Continued)

S106386910

Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	235783
Region:	4
Order / Resolution Number:	NOV
Enforcement Action Type:	Notice of Violation
Effective Date:	05/18/2001
Adoption/Issuance Date:	05/18/2001
Achieve Date:	Not reported
Termination Date:	11/19/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CI 5244 NOV (05/18/01)
Description:	Notice of Violation sent 5/18/01 for 14 effluent violations.
	Not reported
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0

69
West
1/4-1/2
0.395 mi.
2084 ft.

ARCO REFINERY
1801 SEPULVEDA
CARSON, CA 90749

CPS-SLIC **S104404954**
N/A

Relative:
Higher

SLIC REG 4:
 Region: 4
 Facility Status: Remediation
 SLIC: 0224
 Substance: TPH
 Staff: PC

Actual:
28 ft.

J70
North
1/4-1/2
0.473 mi.
2498 ft.

COMMON MARKET CONTAINER SERVIC
22700 S ALAMEDA
LONG BEACH, CA 90810
Site 1 of 2 in cluster J

ENVIROSTOR **S106829069**
EMI **N/A**

Relative:
Higher

ENVIROSTOR:
 Facility ID: 60001198
 Status: Inactive - Action Required
 Status Date: 07/31/2015
 Site Code: 400860
 Site Type: Evaluation
 Site Type Detailed: Evaluation
 Acres: 19
 NPL: NO

Actual:
25 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COMMON MARKET CONTAINER SERVIC (Continued)

S106829069

Regulatory Agencies: SMBRP, US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: Manny Alonzo
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.81947
Longitude: -118.2303
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 400860
Alias Type: Project Code (Site Code)
Alias Name: 60001198
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 03/17/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 05/29/2015
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

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 69959
Air District Name: SC
SIC Code: 2656
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 10

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

COMMON MARKET CONTAINER SERVIC (Continued)

S106829069

Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5
Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	69959
Air District Name:	SC
SIC Code:	2656
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5
Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	69959
Air District Name:	SC
SIC Code:	2656
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5

J71
North
1/4-1/2
0.473 mi.
2498 ft.

ALAMEDA ST SAN LDFL
22700 S ALAMEDA ST
CARSON, CA 90810
Site 2 of 2 in cluster J

SEMS 1000297229
CAD980636393

Relative:
Higher
Actual:
25 ft.

SEMS:	
Site ID:	901806
EPA ID:	CAD980636393
Cong District:	32
FIPS Code:	6037
Latitude:	Not reported
Longitude:	Not reported
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALAMEDA ST SAN LDFL (Continued)

1000297229

SEMS Detail:

Region: 9
Site ID: 901806
EPA ID: CAD980636393
Site Name: ALAMEDA ST SAN LDFL
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1984-11-01 00:00:00
Finish Date: 11/1/1984
Qual: L
Current Action Lead: EPA Perf

Region: 9
Site ID: 901806
EPA ID: CAD980636393
Site Name: ALAMEDA ST SAN LDFL
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: 1988-12-21 00:00:00
Finish Date: 12/21/1988
Qual: L
Current Action Lead: EPA Perf

Region: 9
Site ID: 901806
EPA ID: CAD980636393
Site Name: ALAMEDA ST SAN LDFL
NPL: N
FF: N
OU: 0
Action Code: OO
Action Name: SITE REASS
SEQ: 1
Start Date: 2013-07-01 00:00:00
Finish Date: 10/1/2014
Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 901806
EPA ID: CAD980636393
Site Name: ALAMEDA ST SAN LDFL
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: 1991-07-06 00:00:00

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ALAMEDA ST SAN LDFL (Continued)

1000297229

Finish Date: 7/6/1991
 Qual: H
 Current Action Lead: EPA Perf

Region: 9
 Site ID: 901806
 EPA ID: CAD980636393
 Site Name: ALAMEDA ST SAN LDFL
 NPL: N
 FF: N
 OU: 0
 Action Code: DS
 Action Name: DISCVRY
 SEQ: 1
 Start Date: 1979-11-01 00:00:00
 Finish Date: 11/1/1979
 Qual: Not reported
 Current Action Lead: St Perf

K72
SSW
1/2-1
0.515 mi.
2718 ft.

L.A. ORDNANCE DEPOT WILIMINGTON

ENVIROSTOR S107736553
N/A

WILMINGTON, CA

Site 1 of 3 in cluster K

Relative:
Higher
Actual:
31 ft.

ENVIROSTOR:
 Facility ID: 80001029
 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: 64
 Senate: 35
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: DERA
 Latitude: 33.8
 Longitude: -118.2330
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: CA99799FA42000
 Alias Type: Federal Facility ID
 Alias Name: J09CA7393
 Alias Type: INPR
 Alias Name: 80001029

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

L.A. ORDNANCE DEPOT WILIMINGTON (Continued)

S107736553

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE

Completed Sub Area Name: Not reported

Completed Document Type: Munitions Response Site Prioritization Protocol (MRSP)

Completed Date: 07/16/1999

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

K73
SSW
1/2-1
0.516 mi.
2727 ft.

LAGUNA DOM OIL SF PL
LOS ANGELES, CA
Site 2 of 3 in cluster K

ENVIROSTOR S107736583
N/A

Relative:
Higher
Actual:
30 ft.

ENVIROSTOR:

Facility ID: 80000184

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: 64

Senate: 35

Special Program: Not reported

Restricted Use: NO

Site Mgmt Req: NONE SPECIFIED

Funding: DERA

Latitude: 33.80027

Longitude: -118.2336

APN: NONE SPECIFIED

Past Use: NONE SPECIFIED

Potential COC: NONE SPECIFIED

Confirmed COC: NONE SPECIFIED

Potential Description: NONE SPECIFIED

Alias Name: CA99799F549700

Alias Type: Federal Facility ID

Alias Name: J09CA0438

Alias Type: INPR

Alias Name: 80000184

Alias Type: Envirostor ID Number

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LAGUNA DOM OIL SF PL (Continued)

S107736583

Completed Info:

Completed Area Name: Not reported
 Completed Sub Area Name: Not reported
 Completed Document Type: Not reported
 Completed Date: Not reported
 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

K74
SSW
1/2-1
0.523 mi.
2763 ft.

MANUEL WAREHOUSE
SAN PEDRO, CA
Site 3 of 3 in cluster K

ENVIROSTOR **S107736664**
N/A

Relative:
Higher
Actual:
30 ft.

ENVIROSTOR:
 Facility ID: 80001099
 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: 64
 Senate: 35
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: DERA
 Latitude: 33.8
 Longitude: -118.2333
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: CA99799FA42600
 Alias Type: Federal Facility ID
 Alias Name: J09CA7399
 Alias Type: INPR
 Alias Name: 80001099
 Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANUEL WAREHOUSE (Continued)

S107736664

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 07/16/1999
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

L75
West
1/2-1
0.546 mi.
2881 ft.

BP WEST COAST PRODUCTS LLC
1801 E SEPULVEDA BLVD
CARSON, CA 90745

ENVIROSTOR **S115779982**
N/A

Site 1 of 4 in cluster L

Relative:
Higher
Actual:
32 ft.

ENVIROSTOR:
Facility ID: 80001685
Status: Refer: RWQCB
Status Date: 01/01/2008
Site Code: 400348
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: RWQCB
Lead Agency: WQC
Program Manager: Not reported
Supervisor: Rizgar Ghazi
Division Branch: Cleanup Sacramento
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.80870
Longitude: -118.2369
APN: 7315006003
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ARCO PETROLEUM PRODUCTS COMPANY - WATSON
Alias Type: Alternate Name
Alias Name: 7315006003
Alias Type: APN
Alias Name: CAD077227049
Alias Type: EPA Identification Number
Alias Name: 110017428988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BP WEST COAST PRODUCTS LLC (Continued)

S115779982

Alias Type: EPA (FRS #)
Alias Name: 400348
Alias Type: Project Code (Site Code)
Alias Name: 19290015
Alias Type: Envirostor ID Number
Alias Name: 80001685
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 11/21/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 11/21/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 08/20/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 10/30/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 10/30/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 05/31/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/01/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/01/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BP WEST COAST PRODUCTS LLC (Continued)

S115779982

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/21/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 02/25/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 09/09/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 10/20/1997
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Groundwater Migration Controlled
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Constructed
Future Due Date: 2020
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

L76
West
1/2-1
0.546 mi.
2881 ft.

TESORO CARSON REFINERY
1801 E SEPULVEDA BLVD
CARSON, CA 90749

ICE S115811833
HWP N/A

Site 2 of 4 in cluster L

Relative:
Higher
Actual:
32 ft.

ICE:
Envirostor ID: 3000212
EPA ID: CAD077227049
Site Type: INSPECTION
Facility Status: No Action

Inspection:
Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 05/11/2006
Violation Class: Minor
RTC Date: 05/12/2006

Action Type: Financial Records Review - Post-Closure
Action Date: 06/05/2006
Violation Class: Class 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

RTC Date: 03/07/2007

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 11/13/2003
Violation Class: Class 2, Minor
RTC Date: 02/23/2004

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 04/02/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 01/24/2001
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 10/22/2002
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 03/04/2003
Violation Class: Minor
RTC Date: 02/23/2004

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 02/23/2000
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 04/14/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 06/29/2009
Violation Class: Class 2
RTC Date: 12/22/2009

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 02/20/2002
Violation Class: Minor
RTC Date: 03/06/2002

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 05/11/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 04/26/2010
Violation Class: Class 2
RTC Date: 09/07/2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 10/19/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 05/03/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 10/21/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 02/04/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal
Action Date: 10/21/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 11/15/2017
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 09/06/2017
Violation Class: Class 2
RTC Date: 09/21/2017

HWP:

EPA Id: CAD077227049
Cleanup Status: POST CLOSURE PERMIT
Latitude: 33.80870
Longitude: -118.2369
Facility Type: Post-Closure Permitted
Facility Size: Large Postclosure
Team: PHILLIP BLUM
Supervisor: MIKE ESHAGHIAN
Site Code: 400348
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - FINAL PART A & PART B RECEIVED
Actual Date: 07/30/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - FINAL POST-CLOSURE PERMIT
Actual Date: 10/15/2015

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date: 11/15/2025

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - RESPONSE TO 3RD NOD RECEIVED
Actual Date: 06/17/2014

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - DISCLOSURE (CLEARED)
Actual Date: 08/18/2008

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 11/26/2013

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - MAILING LIST
Actual Date: 05/17/2013

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 05/24/1983

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: PC Renewal PC - With Changes - 3RD NOTICE OF DEFICIENCY ISSUED
Actual Date: 05/12/2014

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: Not reported
Event Description: *Mod Class 1* - Prior Approval Required - PUBLIC NOTICE BY PERMITTEE
Actual Date: 05/17/2013

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

Event Description:	PC Renewal PC - With Changes - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date:	11/16/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	08/05/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	09/25/1990
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - CALL-IN LETTER ISSUED
Actual Date:	12/15/2011
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - PUBLIC COMMENT (BEGIN)
Actual Date:	08/12/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	09/29/1988
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date:	09/26/1995
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	09/26/1995
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - CEQA DETERMINATION
Actual Date:	08/05/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - DRAFT CEQA
Actual Date:	07/30/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date:	08/27/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Operating Permit - CALL-IN LETTER ISSUED
Actual Date:	02/02/1983
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - FINAL CEQA
Actual Date:	10/15/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date:	08/05/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - TECHNICAL COMPLETE LETTER
Actual Date:	07/30/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	11/18/1980
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - PUBLIC COMMENT (END)
Actual Date:	09/30/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date:	01/26/2014
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	10/29/2012
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	09/23/1991
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - DRAFT POST-CLOSURE PERMIT
Actual Date:	08/12/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - APPLICATION PART A RECEIVED
Actual Date:	10/01/2012
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	05/28/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	04/04/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	10/17/2013
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - CEQA DETERMINATION
Actual Date:	10/15/2015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	PC Renewal PC - With Changes - APPLICATION PART B RECEIVED
Actual Date:	10/01/2012
Closure:	
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	Closure Final - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	11/06/1995
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Post-Closure Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	05/20/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL PART A & PART B RECEIVED
Actual Date: 03/28/2002

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Post-Closure Permit - DRAFT POST-CLOSURE PERMIT
Actual Date: 05/20/2003

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date: 01/26/2004

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: Closure Final - RESPONSE TO 2ND NOD RECEIVED
Actual Date: 12/01/1995

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Post-Closure Permit - PUBLIC COMMENT (END)
Actual Date: 07/04/2003

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: Closure Final - PUBLIC COMMENT (END)
Actual Date: 12/12/1995

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: Closure Final - PUBLIC COMMENT (BEGIN)
Actual Date: 12/12/1995

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: New Post-Closure Permit - APPLICATION PART B RECEIVED
Actual Date: 05/26/1998

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 12/04/1997

EPA Id: CAD077227049
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

Event Description:	Closure Final - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	09/26/1995
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN APPROVED
Actual Date:	03/04/1996
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT
Actual Date:	12/23/2003
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date:	01/26/2014
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1-East Basin (GPRA Unit), WASTPILE1-West Basin (GPRA Unit)
Event Description:	Closure Final - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	11/15/1995
Alias:	
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	FRS
Alias:	110017428988
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	Envirostor ID Number
Alias:	19290015
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	Project Code (Site Code)
Alias:	400348
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315001025
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315001026
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315001027

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315001028
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315006003
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315007005
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315007006
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315007007
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315007009
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315008046
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315008047
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315008053
EPA Id:	CAD077227049
Facility Type:	Post-Closure Permitted
Alias Type:	Alternate Name
Alias:	ARCO PETROLEUM PRODUCTS COMPANY - WATSON
Maintenance:	
EPA Id:	CAD077227049
Title:	Draft LUC for the East and West Retention Basins
Document Type:	Deed Restriction / LUC Monitoring Report
Received Date:	11/09/2016
EPA Id:	CAD077227049

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO CARSON REFINERY (Continued)

S115811833

Title: Refinery Subsurface Cleanup Progress Report January through June 2015
Document Type: Monitoring Report - Groundwater
Received Date: 12/08/2015

EPA Id: CAD077227049
Title: 2015 Annual Refinery Subsurface Cleanup Progress Report.
Document Type: Monitoring Report - Groundwater
Received Date: 07/13/2016

EPA Id: CAD077227049
Title: Request for Repair and Maintenance East Retention Basin
Document Type: Respond to Facility Inquiries
Received Date: 06/14/2011

EPA Id: CAD077227049
Title: 2010 RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 05/12/2011

EPA Id: CAD077227049
Title: 2011 RCRA Groundwater Quality Assessment Report East and West Retention Basins
Document Type: Monitoring Report - Groundwater
Received Date: 05/01/2012

EPA Id: CAD077227049
Title: 2012 RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 05/15/2013

EPA Id: CAD077227049
Title: RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 04/23/2014

EPA Id: CAD077227049
Title: RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 04/20/2015

EPA Id: CAD077227049
Title: RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 06/20/2016

EPA Id: CAD077227049
Title: RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 06/05/2017

MAP FINDINGS

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Database(s)

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<p>L77 West 1/2-1 0.546 mi. 2881 ft.</p>	<p>TESORO LOS ANGELES REFINERY - CARSON OPERATIONS 1801 SEPULVEDA BLVD CARSON, CA 90745</p> <p>Site 3 of 4 in cluster L</p>	<p>SEMS-ARCHIVE CORRACTS RCRA-TSDF RCRA-LQG US FIN ASSUR 2020 COR ACTION</p>	<p>1015732785 CAD077227049</p>
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Relative:
Higher

SEMS Archive:
Site ID: 901601
EPA ID: CAD077227049
Cong District: 32
FIPS Code: 6037
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
32 ft.

SEMS Archive Detail:

Region: 9
Site ID: 901601
EPA ID: CAD077227049
Site Name: ARCO PETROL PROD CO WATSON REF
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1988-11-21 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 9
Site ID: 901601
EPA ID: CAD077227049
Site Name: ARCO PETROL PROD CO WATSON REF
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1985-05-01 00:00:00
Qual: L
Current Action Lead: EPA Perf

Region: 9
Site ID: 901601
EPA ID: CAD077227049
Site Name: ARCO PETROL PROD CO WATSON REF
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: Not reported
Finish Date: 1988-11-21 00:00:00
Qual: N

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Current Action Lead: EPA Perf

Region: 9
Site ID: 901601
EPA ID: CAD077227049
Site Name: ARCO PETROL PROD CO WATSON REF
NPL: N
FF: N
OU: 0
Action Code: SI
Action Name: SI
SEQ: 1
Start Date: Not reported
Finish Date: 1987-09-01 00:00:00
Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 901601
EPA ID: CAD077227049
Site Name: ARCO PETROL PROD CO WATSON REF
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1979-12-01 00:00:00
Finish Date: 1979-12-01 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf

CORRACTS:

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19900101
Action: CA029ST
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19850501
Action: CA049PA
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19870901
Action: CA049SI
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20080909
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20080909
Action: CA750IN - Migration of Contaminated Groundwater under Control, More information is needed to make a determination
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20080909
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19900820
Action: CA250 - CMS Imposition
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19900820
Action: CA100 - RFI Imposition
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971020
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective

Map ID
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations

NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19881121
Action: CA049RE
NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19881121
Action: CA050 - RFA Completed
NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19850225
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: 19971030
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 32411

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Petroleum Refineries
Original schedule date: 19971030
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19971030
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20070531
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20070531

Map ID
Direction
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Schedule end date: Not reported

EPA ID: CAD077227049
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20070531
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified

NAICS Code(s): 32411
Petroleum Refineries

Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/18/2016
Facility name: TESORO LOS ANGELES REFINERY - CARSON OPERATIONS
Facility address: 1801 SEPULVEDA BLVD
CARSON, CA 90745

EPA ID: CAD077227049
Mailing address: E 223 RD STREET
CARSON, CA 90810

Contact: ROBERT J RIORDAN
Contact address: E 223 RD STREET
CARSON, CA 90810

Contact country: US
Contact telephone: 310-522-6154
Telephone ext.: 6154
Contact email: ROBERT.J.RIORDAN@TSOCORP.COM

EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: TESORO REFINING & MARKETING
Owner/operator address: E 223 RD STREET
CARSON, CA 90810

Owner/operator country: US
Owner/operator telephone: 310-847-5658
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/01/2013
Owner/Op end date: Not reported

Owner/operator name: TESORO REFINING AND MARKETING
Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported
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: 06/01/2013
Owner/Op end date: Not reported

Owner/operator name: TESORO REFINING AND MARKETING CO LLC
Owner/operator address: 2350 E 223RD ST
CARSON, CA 90810

Owner/operator country: US
Owner/operator telephone: 310-847-3646
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: 04/01/2013
Owner/Op end date: Not reported

Owner/operator name: TESORO REFINING AND MARKETING CO LLC
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: 04/01/2013
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

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: E
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: Not reported

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 162
. Waste name: Other spent catalyst

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: Waste oil and mixed oil
- . Waste code: 222
- . Waste name: Oil/water separation sludge
- . Waste code: 241
- . Waste name: Tank bottom waste
- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics
- . Waste code: 343
- . Waste name: Unspecified organic liquid mixture
- . Waste code: 352
- . Waste name: Other organic solids
- . Waste code: 461
- . Waste name: Degreasing sludge
- . Waste code: 551
- . Waste name: Laboratory waste chemicals
- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups
- . Waste code: 721
- . Waste name: Liquids with arsenic > 500 mg/l
- . Waste code: 724
- . Waste name: Liquids with lead > 500 mg/l
- . Waste code: 741
- . Waste name: Liquids with halogenated organic compounds > 1000 mg/l
- . Waste code: 791
- . Waste name: Liquids with pH < 2
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D003

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EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D019
- . Waste name: CARBON TETRACHLORIDE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

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MAP FINDINGS

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Database(s)

EDR ID Number
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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: P030
- . Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

- . Waste code: U080
- . Waste name: METHANE, DICHLORO-

- . Waste code: U160
- . Waste name: 2-BUTANONE, PEROXIDE (R,T)

- . Waste code: U220
- . Waste name: BENZENE, METHYL-

Historical Generators:

Date form received by agency: 03/01/2014

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Elevation

MAP FINDINGS

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EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Site name:	TESORO LOS ANGELES REFINERY - CARSON OPERATIONS
Classification:	Large Quantity Generator
. Waste code:	121
. Waste name:	Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
. Waste code:	122
. Waste name:	Alkaline solution without metals (pH > 12.5)
. Waste code:	141
. Waste name:	Off-specification, aged, or surplus inorganics
. Waste code:	162
. Waste name:	Other spent catalyst
. Waste code:	181
. Waste name:	Other inorganic solid waste
. Waste code:	213
. Waste name:	Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
. Waste code:	214
. Waste name:	Unspecified solvent mixture
. Waste code:	221
. Waste name:	Waste oil and mixed oil
. Waste code:	222
. Waste name:	Oil/water separation sludge
. Waste code:	241
. Waste name:	Tank bottom waste
. Waste code:	331
. Waste name:	Off-specification, aged, or surplus organics
. Waste code:	352
. Waste name:	Other organic solids
. Waste code:	551
. Waste name:	Laboratory waste chemicals
. Waste code:	611
. Waste name:	Contaminated soil from site clean-ups
. Waste code:	721
. Waste name:	Liquids with arsenic > 500 mg/l
. Waste code:	724
. Waste name:	Liquids with lead > 500 mg/l
. Waste code:	741
. Waste name:	Liquids with halogenated organic compounds > 1000 mg/l
. Waste code:	791

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: Liquids with pH < 2

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D005
- . Waste name: BARIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

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 name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037

. Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

. Waste code: F038

MAP FINDINGS

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

 - . Waste code: K050
 - . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

 - . Waste code: K169
 - . Waste name: Crude oil storage tank sediment from petroleum refining operations.

 - . Waste code: K171
 - . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

 - . Waste code: P110
 - . Waste name: PLUMBANE, TETRAETHYL-

 - . Waste code: U153
 - . Waste name: METHANETHIOL (I, T)

 - . Waste code: U210
 - . Waste name: ETHENE, TETRACHLORO-
- Date form received by agency: 07/24/2013
- Site name: TESORO LOS ANGELES REFINERY CARSON OPERATIONS
- Classification: Large Quantity Generator
- . Waste code: 122
 - . Waste name: Alkaline solution without metals (pH > 12.5)

 - . Waste code: 131
 - . Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

 - . Waste code: 133
 - . Waste name: Aqueous solution with 10% or more total organic residues

 - . Waste code: 134
 - . Waste name: Aqueous solution with <10% total organic residues

 - . Waste code: 135
 - . Waste name: Unspecified aqueous solution

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

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- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 151
- . Waste name: Asbestos-containing waste

- . Waste code: 161
- . Waste name: Fluid-cracking catalyst (FCC) waste

- . Waste code: 162
- . Waste name: Other spent catalyst

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 211
- . Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

- . Waste code: 214
- . Waste name: Unspecified solvent mixture

- . Waste code: 221
- . Waste name: Waste oil and mixed oil

- . Waste code: 222
- . Waste name: Oil/water separation sludge

- . Waste code: 223
- . Waste name: Unspecified oil-containing waste

- . Waste code: 261
- . Waste name: Polychlorinated biphenyls and material containing PCB's

- . Waste code: 272
- . Waste name: Polymeric resin waste

- . Waste code: 281
- . Waste name: Adhesives

- . Waste code: 311
- . Waste name: Pharmaceutical waste

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 352
- . Waste name: Other organic solids

- . Waste code: 461
- . Waste name: Degreasing sludge

- . Waste code: 491
- . Waste name: Unspecified sludge waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: 512
- . Waste name: Other empty containers 30 gallons or more

- . Waste code: 513
- . Waste name: Empty containers less than 30 gallons

- . Waste code: 551
- . Waste name: Laboratory waste chemicals

- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups

- . Waste code: 721
- . Waste name: Liquids with arsenic > 500 mg/l

- . Waste code: 725
- . Waste name: Liquids with mercury > 20 mg/l

- . Waste code: 741
- . Waste name: Liquids with halogenated organic compounds > 1000 mg/l

- . Waste code: 791
- . Waste name: Liquids with pH < 2

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D005
- . Waste name: BARIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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 name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS

Map ID
Direction
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Elevation

MAP FINDINGS

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EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: U210
- . Waste name: ETHENE, TETRACHLORO-

- Date form received by agency: 06/05/2013
- Site name: CARSON REFINERY
- Classification: Large Quantity Generator

- . Waste code: 122
- . Waste name: Alkaline solution without metals (pH > 12.5)

- . Waste code: 131
- . Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

- . Waste code: 133
- . Waste name: Aqueous solution with 10% or more total organic residues

- . Waste code: 134
- . Waste name: Aqueous solution with <10% total organic residues

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: 135
- . Waste name: Unspecified aqueous solution

- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 151
- . Waste name: Asbestos-containing waste

- . Waste code: 161
- . Waste name: Fluid-cracking catalyst (FCC) waste

- . Waste code: 162
- . Waste name: Other spent catalyst

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 211
- . Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)

- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

- . Waste code: 214
- . Waste name: Unspecified solvent mixture

- . Waste code: 221
- . Waste name: Waste oil and mixed oil

- . Waste code: 222
- . Waste name: Oil/water separation sludge

- . Waste code: 223
- . Waste name: Unspecified oil-containing waste

- . Waste code: 261
- . Waste name: Polychlorinated biphenyls and material containing PCB's

- . Waste code: 272
- . Waste name: Polymeric resin waste

- . Waste code: 281
- . Waste name: Adhesives

- . Waste code: 311
- . Waste name: Pharmaceutical waste

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 352
- . Waste name: Other organic solids

- . Waste code: 461
- . Waste name: Degreasing sludge

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: 491
- . Waste name: Unspecified sludge waste

- . Waste code: 512
- . Waste name: Other empty containers 30 gallons or more

- . Waste code: 513
- . Waste name: Empty containers less than 30 gallons

- . Waste code: 551
- . Waste name: Laboratory waste chemicals

- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups

- . Waste code: 721
- . Waste name: Liquids with arsenic > 500 mg/l

- . Waste code: 725
- . Waste name: Liquids with mercury > 20 mg/l

- . Waste code: 741
- . Waste name: Liquids with halogenated organic compounds > 1000 mg/l

- . Waste code: 791
- . Waste name: Liquids with pH < 2

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D005
- . Waste name: BARIUM

- . Waste code: D008
- . Waste name: LEAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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 name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: U210
- . Waste name: ETHENE, TETRACHLORO-

- Date form received by agency: 01/08/2013
- Site name: TESORO REFINING AND MARKETING CO LLC
- Classification: Large Quantity Generator

- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 162
- . Waste name: Other spent catalyst

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 211

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
- . Waste code: 221
- . Waste name: Waste oil and mixed oil
- . Waste code: 222
- . Waste name: Oil/water separation sludge
- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics
- . Waste code: 352
- . Waste name: Other organic solids
- . Waste code: 461
- . Waste name: Degreasing sludge
- . Waste code: 551
- . Waste name: Laboratory waste chemicals
- . Waste code: 791
- . Waste name: Liquids with pH < 2
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
- . Waste code: D005
- . Waste name: BARIUM
- . Waste code: D008
- . Waste name: LEAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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 name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: U210
- . Waste name: ETHENE, TETRACHLORO-

- Date form received by agency: 03/05/2012
- Site name: BP WEST COAST PRODUCTS, LLC, CARSON REFINERY
- Classification: Large Quantity Generator

- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 162
- . Waste name: Other spent catalyst

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 211

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
- . Waste code: 221
- . Waste name: Waste oil and mixed oil
- . Waste code: 222
- . Waste name: Oil/water separation sludge
- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics
- . Waste code: 352
- . Waste name: Other organic solids
- . Waste code: 461
- . Waste name: Degreasing sludge
- . Waste code: 551
- . Waste name: Laboratory waste chemicals
- . Waste code: 791
- . Waste name: Liquids with pH < 2
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
- . Waste code: D005
- . Waste name: BARIUM
- . Waste code: D008
- . Waste name: LEAD

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: D040
- . Waste name: TRICHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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 name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: U210
- . Waste name: ETHENE, TETRACHLORO-

- Date form received by agency: 06/10/2010
- Site name: BP WEST COAST PRODUCTS LL., CARSON REFINERY
- Classification: Large Quantity Generator

- . Waste code: 135
- . Waste name: Unspecified aqueous solution

- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 151
- . Waste name: Asbestos-containing waste

- . Waste code: 162

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

- . Waste name: Other spent catalyst
- . Waste code: 181
- . Waste name: Other inorganic solid waste
- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
- . Waste code: 214
- . Waste name: Unspecified solvent mixture
- . Waste code: 221
- . Waste name: Waste oil and mixed oil
- . Waste code: 222
- . Waste name: Oil/water separation sludge
- . Waste code: 272
- . Waste name: Polymeric resin waste
- . Waste code: 281
- . Waste name: Adhesives
- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics
- . Waste code: 551
- . Waste name: Laboratory waste chemicals
- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups
- . Waste code: 741
- . Waste name: Liquids with halogenated organic compounds > 1000 mg/l
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

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DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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: F003
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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 name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED 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: F037
. Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE

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BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K048
- . Waste name: DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- . Waste code: P042
- . Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

- . Waste code: P081
- . Waste name: NITROGLYCERINE (R)

- . Waste code: U162
- . Waste name: METHYL METHACRYLATE (I,T)

- . Waste code: U210
- . Waste name: ETHENE, TETRACHLORO-

Date form received by agency: 02/27/2008

Site name: BP WEST COAST PRODUCTS LLC, BP CARSON REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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- . Waste code: D008
- . Waste name: LEAD

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

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Date form received by agency: 02/27/2006

Site name: BP WEST COAST PRODUCTS - CARSON REFINERY

Classification: Large Quantity Generator

. Waste code: 122

. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 141

. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 162

. Waste name: Other spent catalyst

. Waste code: 181

. Waste name: Other inorganic solid waste

. Waste code: 221

. Waste name: Waste oil and mixed oil

. Waste code: 222

. Waste name: Oil/water separation sludge

. Waste code: 331

. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352

. Waste name: Other organic solids

. Waste code: 461

. Waste name: Degreasing sludge

. Waste code: 491

. Waste name: Unspecified sludge waste

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008

. Waste name: LEAD

. Waste code: D009

. Waste name: MERCURY

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

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- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D026
- . Waste name: CRESOL

- . Waste code: F002
- . Waste name: 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 LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F039
- . Waste name: LEACHATE (LIQUIDS THAT HAVE PERCOLATED THROUGH LAND DISPOSED WASTES) RESULTING FROM THE DISPOSAL OF MORE THAN ONE RESTRICTED WASTE CLASSIFIED AS HAZARDOUS UNDER SUBPART D OF THIS PART. (LEACHATE RESULTING FROM THE DISPOSAL OF ONE OR MORE OF THE FOLLOWING EPA HAZARDOUS WASTES AND NO OTHER HAZARDOUS WASTES RETAINS ITS EPA

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HAZARDOUS WASTES NUMBER(S): F020, F021, F022, F026, F027, AND/OR F028).

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/25/2004

Site name: BP WEST COAST PRODUCTS-CARSON REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM

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OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

. Waste code: K050
 . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

. Waste code: K171
 . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/15/2002
 Site name: BP WEST COAST PRODUCTS LLC CARSON REFINERY
 Classification: Large Quantity Generator

Date form received by agency: 12/06/2001
 Site name: B P WEST COAST PRODUCTS L L C
 Classification: Large Quantity Generator

. Waste code: D000
 . Waste name: Not Defined

. Waste code: D001
 . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
 . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
 . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D008
 . Waste name: LEAD

. Waste code: D009
 . Waste name: MERCURY

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- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K048
- . Waste name: DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K049
- . Waste name: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K169
- . Waste name: Crude oil storage tank sediment from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

reactors (excludes inert support media)

Date form received by agency: 10/12/2000

Site name: ARCO LOS ANGELES REFINERY

Classification: Large Quantity Generator

Date form received by agency: 03/04/1999

Site name: ARCO PRODUCTS COMPANY

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996

Site name: B P WEST COAST PRODUCTS L L C

Classification: Large Quantity Generator

Date form received by agency: 03/26/1996

Site name: ARCO PRODUCTS COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/29/1994

Site name: ARCO PRODUCTS COMPANY

Classification: Large Quantity Generator

Date form received by agency: 03/31/1992

Site name: ARCO PRODUCTS COMPANY LOS ANGELES REFINERY

Classification: Large Quantity Generator

Date form received by agency: 05/01/1990

Site name: ARCO PETROLEUM PRODUCTS CO

Classification: Large Quantity Generator

Date form received by agency: 08/15/1980

Site name: B P WEST COAST PRODUCTS L L C

Classification: Large Quantity Generator

Date form received by agency: 08/15/1980

Site name: B P WEST COAST PRODUCTS L L C

Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 37587

Waste code: D002

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 2912

Waste code: D003

Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 2925

Waste code: D007

Waste name: CHROMIUM

Amount (Lbs): 1166078

Waste code: D008

Waste name: LEAD

Amount (Lbs): 29760

Waste code: D018

Waste name: BENZENE

Amount (Lbs): 1212961

Waste code: D019

Waste name: CARBON TETRACHLORIDE

Amount (Lbs): 2912

Waste code: D039

Waste name: TETRACHLOROETHYLENE

Amount (Lbs): 2912

Waste code: F001

Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 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.

Amount (Lbs): 4029

Waste code: F003

Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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.

Amount (Lbs): 12539

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Waste code:	F005
Waste name:	THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs):	13499
Waste code:	F037
Waste name:	PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.
Amount (Lbs):	524020
Waste code:	F038
Waste name:	PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.
Amount (Lbs):	524020
Waste code:	K050
Waste name:	HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY
Amount (Lbs):	524020
Waste code:	K171
Waste name:	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)
Amount (Lbs):	1164738

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Waste code: P030
Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
Amount (Lbs): 13

Waste code: U080
Waste name: METHANE, DICHLORO-
Amount (Lbs): 2912

Waste code: U160
Waste name: 2-BUTANONE, PEROXIDE (R,T)
Amount (Lbs): 2912

Corrective Action Summary:

Event date: 02/25/1985
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 05/01/1985
Event: PA OR CERCLA INSPECTION

Event date: 09/01/1987
Event: PA OR CERCLA INSPECTION

Event date: 11/21/1988
Event: PA OR CERCLA INSPECTION

Event date: 11/21/1988
Event: RFA COMPLETED

Event date: 01/01/1990
Event: LEAD AGENCY DETERMINATION

Event date: 08/20/1990
Event: INVESTIGATION IMPOSITION

Event date: 08/20/1990
Event: CMS IMPOSITION

Event date: 10/20/1997
Event: STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION

Event date: 10/30/1997
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 10/30/1997
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 10/30/1997
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 10/30/1997
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

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Event date: 10/30/1997
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 10/30/1997
Event: REFERRED TO A NON-RCRA AUTHORITY

Event date: 05/31/2007
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 05/31/2007
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/09/2008
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 09/09/2008
Event: RELEASE TO GW CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/06/2017
Date achieved compliance: 09/21/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/08/2017
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: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/23/2016
Date achieved compliance: 08/08/2016
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: Not reported
Area of violation: Generators - General
Date violation determined: 06/23/2016
Date achieved compliance: 08/08/2016
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 04/26/2010
Date achieved compliance: 09/07/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/03/2010
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/29/2009
Date achieved compliance: 12/22/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/20/2009
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: Not reported
Area of violation: Generators - General
Date violation determined: 07/01/2008
Date achieved compliance: Not reported
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/05/2006
Date achieved compliance: 03/07/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/06/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

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Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 05/11/2006
Date achieved compliance: 05/12/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/2006
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 11/13/2003
Date achieved compliance: 02/23/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/13/2003
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/04/2003
Date achieved compliance: 02/23/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/04/2003
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: Not reported
Area of violation: Generators - General
Date violation determined: 02/20/2002
Date achieved compliance: 03/06/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/22/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 263
Area of violation: Transporters - General
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/10/1991
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/10/1991
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 - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/10/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 137500
Final penalty amount: 62000
Paid penalty amount: 62000

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/10/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 137500

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

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Final penalty amount: 62000
Paid penalty amount: 62000

Regulation violated: FR - 263
Area of violation: Transporters - General
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/10/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 137500
Final penalty amount: 62000
Paid penalty amount: 62000

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/27/1991
Date achieved compliance: 12/20/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/10/1991
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 - 263
Area of violation: Transporters - General
Date violation determined: 05/04/1988
Date achieved compliance: 06/21/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/06/1988
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 05/04/1988
Date achieved compliance: 06/21/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/06/1988
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

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 05/04/1988
Date achieved compliance: 06/21/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/06/1988
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 05/04/1988
Date achieved compliance: 06/21/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/06/1988
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 08/11/1987
Date achieved compliance: 09/02/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/20/1987
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 - 263
Area of violation: Transporters - General
Date violation determined: 08/11/1987
Date achieved compliance: 09/02/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/20/1987
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

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TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 03/14/1986
Date achieved compliance: 08/05/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/05/1986
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 - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 01/29/1986
Date achieved compliance: 03/14/1986
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 - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 09/25/1985
Date achieved compliance: 12/27/1985
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 - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/07/1985
Date achieved compliance: 09/13/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/1985
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 - 262.10-12.A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Area of violation: Generators - General
Date violation determined: 04/18/1984
Date achieved compliance: 06/21/1991
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

Evaluation Action Summary:

Evaluation date: 11/15/2017
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/06/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/21/2017
Evaluation lead agency: State

Evaluation date: 06/23/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/08/2016
Evaluation lead agency: State

Evaluation date: 06/23/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/08/2016
Evaluation lead agency: State

Evaluation date: 10/21/2015
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/04/2015
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/21/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/03/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	10/19/2011
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/26/2010
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	09/07/2010
Evaluation lead agency:	State
Evaluation date:	06/29/2009
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	12/22/2009
Evaluation lead agency:	State
Evaluation date:	05/26/2009
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	05/26/2009
Evaluation:	NOT A SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/14/2009
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	07/01/2008
Evaluation:	SIGNIFICANT NON-COMPLIER
Area of violation:	Generators - General
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	06/05/2006
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	03/07/2007
Evaluation lead agency:	State
Evaluation date:	05/11/2006
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Manifest
Date achieved compliance:	05/12/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Evaluation lead agency: State

Evaluation date: 04/02/2004
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/13/2003
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/23/2004
Evaluation lead agency: State

Evaluation date: 03/04/2003
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/23/2004
Evaluation lead agency: State

Evaluation date: 10/22/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/20/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/06/2002
Evaluation lead agency: State

Evaluation date: 01/24/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/23/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/11/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/23/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/23/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Evaluation:	GROUNDWATER MONITORING EVALUATION
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	01/12/1993
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	03/27/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Transporters - General
Date achieved compliance:	12/20/1993
Evaluation lead agency:	State
Evaluation date:	03/27/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	12/20/1993
Evaluation lead agency:	State
Evaluation date:	03/27/1991
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	12/20/1993
Evaluation lead agency:	State
Evaluation date:	05/25/1988
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	05/04/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Closure/Post-Closure
Date achieved compliance:	06/21/1991
Evaluation lead agency:	State
Evaluation date:	05/04/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Transporters - General
Date achieved compliance:	06/21/1991
Evaluation lead agency:	State
Evaluation date:	05/04/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Financial Requirements
Date achieved compliance:	06/21/1991
Evaluation lead agency:	State
Evaluation date:	05/04/1988
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	06/21/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Evaluation lead agency: State

Evaluation date: 09/30/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/11/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/02/1987
Evaluation lead agency: State

Evaluation date: 08/11/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/11/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Transporters - General
Date achieved compliance: 09/02/1987
Evaluation lead agency: State

Evaluation date: 10/10/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/05/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/23/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/17/1986
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/14/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 08/05/1986
Evaluation lead agency: State

Evaluation date: 01/29/1986

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/14/1986
Evaluation lead agency: EPA

Evaluation date: 12/27/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/25/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 12/27/1985
Evaluation lead agency: EPA

Evaluation date: 08/07/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 09/13/1985
Evaluation lead agency: State

Evaluation date: 06/04/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/11/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/18/1984
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 06/21/1991
Evaluation lead agency: State

US FIN ASSUR:

EPA ID: CAD077227049
County: Not reported
Mechanism type: L
Mechanism Type Description: LETTER OF CREDIT
Cost estimate: 10660000
Face value: 29936000
Effective date: 2015-03-23 00:00:00
Provider: JP MORGAN CHASE
EPA region: 9

EPA ID: CAD077227049
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 8000000
Face value: 8000000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO LOS ANGELES REFINERY - CARSON OPERATIONS (Continued)

1015732785

Effective date: 2011-01-01 00:00:00
Provider: ACE AMERICAN INSURANCE COMPANY
EPA region: 9

EPA ID: CAD077227049
County: Not reported
Mechanism type: X
Mechanism Type Description: STANDBY TRUST FUND
Cost estimate: 10660000
Face value: 0
Effective date: 2013-09-06 00:00:00
Provider: FROST BANK, INC.
EPA region: 9

EPA ID: CAD077227049
County: Not reported
Mechanism type: L
Mechanism Type Description: LETTER OF CREDIT
Cost estimate: 24113649
Face value: 28375261
Effective date: 2011-01-31 00:00:00
Provider: BP
EPA region: 9

2020 COR ACTION:
EPA ID: CAD077227049
Region: 9
Action: Not reported

L78
West
1/2-1
0.546 mi.
2881 ft.

ARCO PETROLEUM PRODUCTS COMPANY - WATSON
1801 EAST SEPULVEDA BOULEVARD
CARSON, CA 90745
Site 4 of 4 in cluster L

ENVIROSTOR S101480683
CHMIRS N/A
CIWQS

Relative:
Higher
Actual:
32 ft.

ENVIROSTOR:
Facility ID: 19290015
Status: Refer: RCRA
Status Date: 08/28/1995
Site Code: 400006
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.81342
Longitude: -118.2433

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ATLANTIC RICHFIELD COMPANY
Alias Type: Alternate Name
Alias Name: BP WEST COAST PRODUCTS LLC
Alias Type: Alternate Name
Alias Name: FOUR CORNERS PIPELINE CO - CARSON
Alias Type: Alternate Name
Alias Name: WATSON REFINERY, ARCO PETROLEUM PRODUCTS
Alias Type: Alternate Name
Alias Name: CAD077227049
Alias Type: EPA Identification Number
Alias Name: 110017428988
Alias Type: EPA (FRS #)
Alias Name: CAD000628412
Alias Type: HWTS Identification Code
Alias Name: 400006
Alias Type: Project Code (Site Code)
Alias Name: 19290015
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/06/1995
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/19/1989
Comments: SITE SCREENING DONE FIT COMPLETED PA REASSESSMENT ON 10/5/88 AND RECOMMENDED NFA UNDER CERCLA, FACILITY IS RCRA REGULATED AND BEING HANDLED BY RWQCB

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 06/03/1981
Comments: FACILITY IDENTIFIED REVIEWED COUNTY ENG. RECORDS

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

CHMIRS:

OES Incident Number: 08-7386

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

OES notification:	10/13/2008
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 Agency 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
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:	Refinery
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1215
Year:	2008
Agency:	BP Carson Refinery
Incident Date:	10/13/2008
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Recovered Oil
Quantity Released:	2
Unknown:	Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

#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:	RP states that over two barrels were found in a tank basin. The cause is undetermined at this time.
OES Incident Number:	10-6969
OES notification:	11/19/2010
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 Agency 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
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:	Refinery
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1000
Year:	2010
Agency:	BP Carson
Incident Date:	11/18/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

E Date:	Not reported
Substance:	Hydrogen sulfide H2S
Quantity Released:	100
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	***POTENTIAL RELEASE ONLY*****Possible due to process malfunction. The incident is under investigation.
OES Incident Number:	7-0582
OES notification:	02/09/1997
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
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:	Unknown
Containment:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	ARCO
Incident Date:	2/9/1997 12:00:00 AM
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Unknown
Site Type:	Refinery
E Date:	Not reported
Substance:	Unknown
Gallons:	0.000000
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:	Fire in refinery/unknown if any substances were released
OES Incident Number:	10-0422
OES notification:	01/19/2010
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	Dominguez Channel
Spill Site:	Refinery
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	N/A
Other:	Not reported
Date/Time:	1445
Year:	2010
Agency:	BP Carson
Incident Date:	1/19/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Unknown
Site Type:	Dominguez Channel
E Date:	Not reported
Substance:	Sheen
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Per caller, the outfalls were open and it is unknown where the source of the sheen is. The sheen size is unknown.
OES Incident Number:	5-1310
OES notification:	02/26/2005
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2005
Agency:	BP Carson Refinery
Incident Date:	2/26/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Hydrogen
Gallons:	0.000000
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:	Substance is being released to flare due to a valve on a compressor failing.
OES Incident Number:	3-3000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

OES notification:	06/12/2003
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 Agency 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
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:	2003
Agency:	BP West Coast Prod.
Incident Date:	4/7/200312:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	NOX
Gallons:	0.000000
Pounds:	55
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

#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:	**Historical event** Loss of De-NOX, caused release of NOX
OES Incident Number:	10-1165
OES notification:	02/14/2010
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 Agency 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
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:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1845
Year:	2010
Agency:	BP West Coast Products, LLC
Incident Date:	2/14/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

E Date:	Not reported
Substance:	SOX
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Per caller, flaring due to fuel gas imbalance.
OES Incident Number:	15069
OES notification:	Not reported
OES Date:	8/12/1996
OES Time:	06:48:44 AM
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
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:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	VAPOR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1996
Agency:	arco
Incident Date:	1550 8/10/96
Admin Agency:	Not reported
Amount:	unspecified
Contained:	NO
Site Type:	REF
E Date:	Not reported
Substance:	hydrocarbons
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#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:	power ffailure
OES Incident Number:	1-3290
OES notification:	06/07/2001
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	ARCO
Incident Date:	6/7/2001 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	No
Site Type:	Refinery
E Date:	Not reported
Substance:	NOX
Pounds:	86
Unknown:	0.000000
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:	A shut down at the #6 coker drum resulted in process gas releasing to the flare The release is ongoing
OES Incident Number:	0-3843
OES notification:	08/25/2000
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 Agency Personnel # Of Decontaminated:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

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
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: n/a
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2000
Agency: ARCO
Incident Date: 8/25/200012:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: No
Site Type: Refinery
E Date: Not reported
Substance: Nitrogen oxide
Gallons: 0.000000
Pounds: 15
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
Fatales: Not reported
Comments: Not reported
Description: Shutting down hydro-cracking unit and sending gas to flair.

CIWQS:

Agency: BP West Coast Products LLC
Agency Address: 2350 E 223rd St, Carson, CA 90810

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ARCO PETROLEUM PRODUCTS COMPANY - WATSON (Continued)

S101480683

Place/Project Type:	Industrial - Petroleum Refining
SIC/NAICS:	Multiple
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I001848
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/30/1992
Termination Date:	06/01/2013
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.81583
Longitude:	-118.23278

M79
West
1/2-1
0.642 mi.
3390 ft.

WILMINGTON REFINERY - SHELL OIL COMPANY
1622 EAST SEPULVEDA BLVD
WILMINGTON, CA 90745
Site 1 of 3 in cluster M

ENVIROSTOR S100183917
N/A

Relative:
Higher
Actual:
34 ft.

ENVIROSTOR:	
Facility ID:	19290284
Status:	Refer: Other Agency
Status Date:	05/01/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	64
Senate:	35
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.80805
Longitude:	-118.24
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* HYDROCARBON SOLVENTS * OIL/WATER SEPARATION SLUDGE * ORGANIC LIQUIDS WITH METALS * OTHER ORGANIC SOLIDS * OTHER STILL BOTTOM WASTE * CONTAMINATED SOIL * ACID SOLUTION 2>PH WITH METALS * Sludge - Halogenated Compounds * STILL BOTTOMS WITH HALOGENATED ORGANICS * TANK BOTTOM WASTES * UNSPECIFIED ACID SOLUTION * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILMINGTON REFINERY - SHELL OIL COMPANY (Continued)

S100183917

(NONSOLVENTS) WITH HALOGENS * TETRAETHYL LEAD SLUDGE Chromium VI
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SHELL OIL - WILMINGTON REFINERY
Alias Type: Alternate Name
Alias Name: CAD980881676
Alias Type: EPA Identification Number
Alias Name: 110000476128
Alias Type: EPA (FRS #)
Alias Name: 19290284
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/09/1992
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

M80
West
1/2-1
0.642 mi.
3390 ft.

SHELL OIL
1622 E. SEPULVEDA BLVD.
CARSON, CA 90745

Notify 65 **S100178234**
N/A

Site 2 of 3 in cluster M

Relative:
Higher
Actual:
34 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

M81
West
1/2-1
0.642 mi.
3390 ft.

WILMINGTON COMPLEX
1622 EAST SEPULVEDA BLVD.
CARSON, CA 90745

Notify 65 **S100177976**
N/A

Site 3 of 3 in cluster M

Relative:
Higher
Actual:
34 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILMINGTON COMPLEX (Continued)

S100177976

Incident Description: Not reported

82
North
1/2-1
0.747 mi.
3942 ft.

MATLACK INC
22422 S ALAMEDA
LONG BEACH, CA 90810

ENVIROSTOR **S103953325**
SWEEPS UST **N/A**

Relative:
Higher
Actual:
27 ft.

ENVIROSTOR:
Facility ID: 71002109
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.82265
Longitude: -118.2284
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD000625459
Alias Type: EPA Identification Number
Alias Name: 71002109
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Non-Submittal
Completed Date: 07/21/2000
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MATLACK INC (Continued)

S103953325

SWEEPS UST:

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 19-060-067287-000004
Tank Status: A
Capacity: 500
Active Date: 07-01-85
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 19-060-067287-000005
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 6
SWRCB Tank Id: 19-060-067287-000006
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MATLACK INC (Continued)

S103953325

Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 19-060-067287-000001
Tank Status: A
Capacity: 6900
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 6

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 19-060-067287-000002
Tank Status: A
Capacity: 6900
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Active
Comp Number: 67287
Number: 9
Board Of Equalization: 44-013678
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 19-060-067287-000003
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

**N83
NNW
1/2-1
0.813 mi.
4292 ft.**

**SOLUTIA INC. CARSON SITE
2100 EAST 223RD STREET
CARSON, CA 90745
Site 1 of 3 in cluster N**

**CORRACTS 1000376909
RCRA-TSDF CAD043555366
RCRA-LQG
HWP**

**Relative:
Higher**

CORRACTS:

**Actual:
23 ft.**

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Actual Date: 19901205
Action: CA250 - CMS Imposition
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19901205
Action: CA100 - RFI Imposition
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910207
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980608
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: 19980608
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980608
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980608
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 53119

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980608
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: 19980608
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980608
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920313
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: 19920313
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920313
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920313
Action: CA050 - RFA Completed
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: 19920313
Schedule end date: Not reported

EPA ID: CAD043555366

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19950414
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: 19950414
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19950414
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19950123
Action: CA200 - RFI Approved
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19950123
Action: CA350 - CMS Approved
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19940523
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19940523
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations

NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: 19940523
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910923
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920526
Action: CA050 - RFA Completed
NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: 19920526
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920526
Action: CA050PA - RFA Completed, Assessment was a PA-Plus
NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920526
Action: CA029ST
NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920526
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920727
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority

NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920727
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available

NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: 19920727
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920727
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available

NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920131
Action: CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control

NAICS Code(s): 53119
Lessors of Other Real Estate Property

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920131
Action: CA600SR - Stabilization Measures Implemented, Primary measure is

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

source removal and/or treatment
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD043555366
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19921031
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 53119
Lessors of Other Real Estate Property
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/27/2016
Facility name: SOLUTIA INC. CARSON SITE
Facility address: 2100 EAST 223RD STREET
CARSON, CA 90745

EPA ID: CAD043555366
Mailing address: DEAUVILLE DRIVE
HUNTINGTON BEACH, CA 92646

Contact: LARRY ADAMS
Contact address: DEAUVILLE DRIVE
HUNTINGTON BEACH, CA 92646

Contact country: US
Contact telephone: 714-963-7624
Contact email: ADAMSACS@GMAIL.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: SOLUTIA INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIONIA INC. CARSON SITE (Continued)

1000376909

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/22/1997
Owner/Op end date: Not reported

Owner/operator name: SOLUTIONIA INC.
Owner/operator address: DEAUVILLE DRIVE
HUNTINGTON BEACH, CA 92646

Owner/operator country: US
Owner/operator telephone: 714-963-7624
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: 04/19/2001
Owner/Op end date: Not reported

Owner/operator name: SOLUTIONIA INC.
Owner/operator address: 575 MARYVILLE CENTRE DRIVE
ST. LOUIS, MO 63141

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: Owner
Owner/Op start date: 04/19/2001
Owner/Op end date: Not reported

Owner/operator name: SOLUTIONIA INC.
Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported
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: 04/19/2001
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

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

- . Waste code: 134
- . Waste name: Aqueous solution with <10% total organic residues

- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

- . Waste code: D042
- . Waste name: 2,4,6-TRICHLOROPHENOL

- . Waste code: D043
- . Waste name: VINYL CHLORIDE

Historical Generators:

Date form received by agency: 03/09/2012
Site name: SOLUTIA INC. CARSON SITE
Classification: Large Quantity Generator

- . Waste code: 134
- . Waste name: Aqueous solution with <10% total organic residues

- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: U019
- . Waste name: BENZENE (I,T)

Date form received by agency: 07/27/2010
Site name: SOLUTIA INC. CARSON SITE
Classification: Large Quantity Generator

- . Waste code: 134
- . Waste name: Aqueous solution with <10% total organic residues

- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: U019
- . Waste name: BENZENE (I,T)

Date form received by agency: 03/31/2008
Site name: SOLUTIA INC. CARSON SITE
Classification: Large Quantity Generator

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

Date form received by agency: 03/02/1993
Site name: MONSANTO CHEM CO
Classification: Large Quantity Generator

Date form received by agency: 03/02/1993
Site name: MONSANTO CHEM CO
Classification: Small Quantity Generator

Date form received by agency: 02/27/1992
Site name: MONSANTO COMPANY CARSON PLANT
Classification: Large Quantity Generator

Date form received by agency: 04/12/1990
Site name: MONSANTO COMPANY / CARSON PLANT
Classification: Large Quantity Generator

Date form received by agency: 08/11/1980
Site name: MONSANTO CHEM CO
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

- Waste code: D018
- Waste name: BENZENE
- Amount (Lbs): 37333

- Waste code: D028
- Waste name: 1,2-DICHLOROETHANE
- Amount (Lbs): 20966

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Waste code: D042
Waste name: 2,4,6-TRICHLOROPHENOL
Amount (Lbs): 20966

Corrective Action Summary:

Event date: 12/05/1990
Event: CMS IMPOSITION

Event date: 12/05/1990
Event: INVESTIGATION IMPOSITION

Event date: 02/07/1991
Event: CMS WORKPLAN APPROVED

Event date: 09/23/1991
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 01/31/1992
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

Event date: 01/31/1992
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS EXPOSURE CONTROL

Event date: 03/13/1992
Event: RFA COMPLETED

Event date: 03/13/1992
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 03/13/1992
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Event date: 05/26/1992
Event: LEAD AGENCY DETERMINATION

Event date: 05/26/1992
Event: RFA COMPLETED-ASSESSMENT WAS A PA-PLUS

Event date: 05/26/1992
Event: RFA COMPLETED

Event date: 05/26/1992
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 07/27/1992
Event: STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY

Event date: 07/27/1992
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 07/27/1992
Event: STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY

Event date: 10/31/1992

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Event: STABILIZATION CONSTRUCTION COMPLETED

Event date: 05/23/1994
Event: STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION

Event date: 05/23/1994
Event: STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION

Event date: 01/23/1995
Event: CMS COMPLETE

Event date: 01/23/1995
Event: INVESTIGATION COMPLETE

Event date: 04/14/1995
Event: REMEDY DECISION

Event date: 04/14/1995
Event: REMEDY DECISION

Event date: 06/08/1998
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 06/08/1998
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 06/08/1998
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Event date: 06/08/1998
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 06/08/1998
Event: REFERRED TO A NON-RCRA AUTHORITY

Facility Has Received Notices of Violations:

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/21/1992
Date achieved compliance: 09/22/1992
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/21/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1200
Final penalty amount: 1200
Paid penalty amount: Not reported

Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 10/30/1989

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Date achieved compliance: 10/24/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/12/1989
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/03/1989
Date achieved compliance: 11/07/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/16/1989
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 - 262.50-60
Area of violation: Generators - General
Date violation determined: 01/26/1987
Date achieved compliance: 10/30/1989
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 01/26/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/26/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/06/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/22/1992
Evaluation lead agency: State

Evaluation date: 10/30/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/24/1990
Evaluation lead agency: State

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Evaluation date: 10/03/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/07/1989
Evaluation lead agency: State

Evaluation date: 01/26/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 10/30/1989
Evaluation lead agency: EPA

HWP:
EPA Id: CAD043555366
Cleanup Status: CLOSED
Latitude: 33.82400
Longitude: -118.2378
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 10/31/1991

EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 05/04/1992

EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 11/12/1991

Closure:
EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Unit Names: BIFBOIL1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 07/01/1993

EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Unit Names: BIFBOIL1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 09/23/1992

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLUTIA INC. CARSON SITE (Continued)

1000376909

Alias:
EPA Id: CAD043555366
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000749281

N84 MONSANTO CHEMICAL COMPANY
NNW 2100 E 223RD ST
1/2-1 CARSON, CA 90810
0.813 mi.
4292 ft. Site 2 of 3 in cluster N

ENVIROSTOR 1000376908
CPS-SLIC N/A
HIST Cal-Sites
SWEEPS UST
CA FID UST
EMI
LOS ANGELES CO. HMS

Relative:
Higher

Actual:
23 ft.

ENVIROSTOR:
Facility ID: 80001380
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: MBR
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.82400
Longitude: -118.2378
APN: 7315008030
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 7315008030
Alias Type: APN
Alias Name: CAD043555366
Alias Type: EPA Identification Number
Alias Name: 110000749281
Alias Type: EPA (FRS #)
Alias Name: 80001380
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 05/26/1992
Comments: Not reported

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Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 06/08/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 07/27/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Remedy Selected
Completed Date: 04/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 05/23/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 04/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 12/05/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/07/1996
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 01/23/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 02/07/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan

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Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Completed Date: 09/23/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Implementation Report
Completed Date: 10/31/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 01/31/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 01/23/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Workplan
Completed Date: 01/31/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/08/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 03/13/1992
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

CPS-SLIC:

Region: STATE
Facility Status: **Open - Inactive**
Status Date: 02/02/2015
Global Id: SLT43131129
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: 19281200
Latitude: 33.8376121118986

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Longitude: -118.260290211125
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 0228
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Calsite:

Region: CYPRESS
Facility ID: 19281200
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: SB
Branch Name: SO CAL - CYPRESS
File Name: Not reported
State Senate District: 04231996
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 28
SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: RZABANEH
Supervisor Responsible for Site: Not reported
Region Water Control Board: LA
Region Water Control Board Name: LOS ANGELES
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 55
State Senate District Code: 28
Facility ID: 19281200
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 02091989
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

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: 19281200
Activity: SS
Activity Name: SITE SCREENING
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06121989
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: 19281200
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: CNSNT
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12241990
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Facility ID: 19281200
Activity: PPP
Activity Name: PUBLIC PARTICIPATION PLAN
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04301991
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: 19281200
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: GW
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01281992
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: INSTALLATION OF FOUR MONITORING WELLS, TWO PIEZOMETERS, AND ONESKIMMING SYSTEM TO DELINEATE THE PLUME AND TO PROVIDE AN INTERIM EXTRACTION SYSTEM.
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19281200
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: AMECO
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Comments Date: 10291993
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: 19281200
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01231995
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: 19281200
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: NEGDK
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

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:	19281200
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
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:	19281200
Activity:	DES
Activity Name:	DESIGN
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03281997
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:	19281200

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: C/O
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03071996
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: 19281200
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: II
Proposed Budget: 0
AWP Completion Date: 06302007
Revised Due Date: 12312007
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: M
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: 19281200
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: II
Proposed Budget: 0
AWP Completion Date: 12302008
Revised Due Date: Not reported
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: M

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MAP FINDINGS

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MONSANTO CHEMICAL COMPANY (Continued)

1000376908

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: 19281200
Activity: OM
Activity Name: OPERATION & MAINTENANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 03312013
Revised Due Date: 12312028
Comments Date: Not reported
Est Person-Yrs to complete: 0
Estimated Size: M
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: 19281200
Activity: RA
Activity Name: REMOVAL ACTION
AWP Code: BIOPI
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01111999
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): 1400
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N

Map ID
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MAP FINDINGS

Site

Database(s)

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EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19281200
Activity: COST
Activity Name: COST RECOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01131999
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: 19281200
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: II
Proposed Budget: 0
AWP Completion Date: 03312005
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: 19281200
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: II

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Proposed Budget: 0
AWP Completion Date: 12312005
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: 19281200
Activity: DES
Activity Name: DESIGN
AWP Code: II
Proposed Budget: 0
AWP Completion Date: 06302006
Revised Due Date: 12312006
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: 2100 EAST 223RD STREET
Alternate City,St,Zip: CARSON, CA 90810
Background Info: Monsanto Chemical Company has manufactured bio and nonbio-degradable detergents for over three decades. The site is located in a heavily industrialized area. Raw materials used in the process include benzene, paraffin, olefin, chlorine, anhydrous ammonia, and aluminum chloride. Volatile organic solvents, chlorinated as well as non-chlorinated, have been found in the groundwater. A layer of benzene is floating on top the groundwater table. Contaminants identified in the soil include benzene and assorted petroleum hydrocarbons. Soil vapor tests have detected the presence of chlorinated solvents. Direct contact with contaminated soil,

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MONSANTO CHEMICAL COMPANY (Continued)

1000376908

inhalation of volatile organics, surface runoff, and groundwater contamination are a threat to public health and the environment. Contaminated water is used for industrial and agricultural purposes. A Consent Order with Monsanto, to investigate the extent of contamination and cleanup the site, was signed in December 1990.

Not reported

Sampling analyses indicate high levels of benzene in shallow aquifer. A seven-inch non-aqueous benzen layer has been identified. 1,2-dichloroethane exists in shallow and deep aquifer.

Not reported

A revised amendment to the Consent Order was finalized and signed on November 15, 1993 to include Remediation Capital Corporation of Reno, Nevada, as a party to the Agreement. RCC purchased the property from Monsanto in September 1993.

Not reported

RCC subsequently filed for bankruptcy and the site reverted back to Monsanto (now Solutia).

Comments Date: 06231999
Comments: completed. The soils were returned to the previously excavated
Comments Date: 06231999
Comments: areas.
Comments Date: 06231999
Comments: Not reported
Comments Date: 07251991
Comments: Detergent manufacturing. Contaminants include benzene, volatile
Comments Date: 07251991
Comments: organics, chlorinated/non-chlorinated, TCE, chloroform,
Comments Date: 07251991
Comments: dichloroethane, petroleum hydrocarbons, and heavy metals.
Comments Date: 12012001
Comments: An updated Health Risk Assessment has been completed. An
Comments Date: 12012001
Comments: updated RI and FS will be completed in order to complete
Comments Date: 12012001
Comments: a RAP amendment.
Comments Date: 12311991
Comments: Removal Action: Groundwater extraction/treatment.
Comments Date: 01032002
Comments: Soil gas sampling of soils in the former tank farm area and
Comments Date: 01032002
Comments: process area was completed to track progress with the Soil
Comments Date: 01032002
Comments: Vapor Extraction System.
Comments Date: 01242003
Comments: DTSC granted approval for decommissioning of eight on-site
Comments Date: 01242003
Comments: groundwater wells and piezometers which are not used for
Comments Date: 01242003
Comments: groundwater monitoring.
Comments Date: 01311990
Comments: This is the date the site was first listed pursuant to
Comments Date: 01311990
Comments: section 25356.
Comments Date: 02142000
Comments: Monsanto/Solutia has requested a RAP re-opener due to a change

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Comments Date: 02142000
Comments: in site conditions and implementability of the selected
Comments Date: 02142000
Comments: remedies for the site.
Comments Date: 02142000
Comments: Not reported
Comments Date: 02142000
Comments: A pilot air sparging test was conducted and did not reproduce
Comments Date: 02142000
Comments: previous Radius of Influence (ROIs) (far lower than originally
Comments Date: 02142000
Comments: estimated). The groundwater table has risen causing the LNAPL
Comments Date: 02142000
Comments: to become entrained beneath the water table.
Comments Date: 03071996
Comments: DTSC signed a Consent Order with the RPs.
Comments Date: 03281997
Comments: Approval of Remedial Design Specifications document, with
Comments Date: 03281997
Comments: Addendum prepared by DTSC.
Comments Date: 04011997
Comments: The Remedial Design Specification Report was approved on
Comments Date: 04011997
Comments: March 28, 1997, with an Addendum completed by DTSC.
Comments Date: 04141995
Comments: The CEQA documents (Negative Declaration) and the Remedial
Comments Date: 04141995
Comments: Action Plan are approved following a 30-day public comment
Comments Date: 04141995
Comments: period. The recommended alternative includes the following
Comments Date: 04141995
Comments: elements: institutional controls; monitoring; excavation,
Comments Date: 04141995
Comments: in-situ and ex-situ bio-treatment, soil vapor extraction and
Comments Date: 04141995
Comments: bioventing of deep soils and shallow soils; thermal/catalytic
Comments Date: 04141995
Comments: oxidation of soil vapor; vacuum enhanced LNAPL recovery with
Comments Date: 04141995
Comments: total fluids pumps; recovered LNAPL disposal by a certified
Comments Date: 04141995
Comments: waste recycler or a permitted hazardous waste TSDF; groundwater
Comments Date: 04141995
Comments: remediation by air sparging within the SVE capture radius and
Comments Date: 04141995
Comments: plume of groundwater contamination; if necessary groundwater
Comments Date: 04141995
Comments: extraction and treatment with air stripping followed by GAC;
Comments Date: 04141995
Comments: and treated groundwater discharge to the sanitary sewer.
Comments Date: 04141995
Comments: Sparging would not be implemented until the LNAPL had been
Comments Date: 04141995
Comments: removed.
Comments Date: 05011995
Comments: DTSC recieved the Remedial Investigation Report dated 8/93
Comments Date: 05011995

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Database(s)

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EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Comments: from Monsanto and the Baseline Health Risk Assessment in
Comments Date: 05011995
Comments: early 1994. The RI/FS was approved in January 1995. With
Comments Date: 05011995
Comments: DTSC's concurrence, Fact Sheet #4 and the CEQA documents
Comments Date: 05011995
Comments: (Negative Declaration) were approved. The public meeting
Comments Date: 05011995
Comments: was held March 8, 1995. Comments were accepted and addressed.
Comments Date: 05011995
Comments: The final RAP was adopted by DTSC on April 14, 1995.
Comments Date: 05011995
Comments: Not reported
Comments Date: 05011995
Comments: The Consent Order to implement the RAP was signed on
Comments Date: 05011995
Comments: March 7, 1996.
Comments Date: 06121989
Comments: Site Screening Done: RP in violation of DHS permit. RP
Comments Date: 06121989
Comments: prepared a Preliminary Assessment/Site Inspection report
Comments Date: 06121989
Comments: (submitted 09/88). Release of benzene and DCE to upper
Comments Date: 06121989
Comments: aquifer. Chemical dump site 1952-1965 not addressed. RP
Comments Date: 06121989
Comments: is negotiating with ICI (other RP).
Comments Date: 06191995
Comments: The Consent Order to implement the RAP, including the Operation
Comments Date: 06191995
Comments: and Maintenance (O&M) Plan is being drafted. The final order
Comments Date: 06191995
Comments: is expected to be fully executed by the end of July 1995.
Comments Date: 06231999
Comments: Remediation of two (2) excavated areas treated in a biopile was
ID Name: CALSTARS CODE
ID Value: 400266
ID Name: BEP DATABASE PCODE
ID Value: P43054
Alternate Name: MONSANTO CHEMICAL COMPANY
Alternate Name: SOLUTIA
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

SWEEPS UST:

Status: Not reported
Comp Number: 5175
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-005175-000002
Tank Status: Not reported
Capacity: 2150

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MAP FINDINGS

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MONSANTO CHEMICAL COMPANY (Continued)

1000376908

Active Date: Not reported
Tank Use: EMPTY
STG: WASTE
Content: Not reported
Number Of Tanks: 1

CA FID UST:

Facility ID: 19029192
Regulated By: UTKNI
Regulated ID: CAD043555
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2138304353
Mail To: Not reported
Mailing Address: 2100 E 223RD ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CARSON 90810
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

EMI:

Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 800227
Air District Name: SC
SIC Code: 2841
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 58
Reactive Organic Gases Tons/Yr: 50
Carbon Monoxide Emissions Tons/Yr: 26
NOX - Oxides of Nitrogen Tons/Yr: 41
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 2
Part. Matter 10 Micrometers and Smlr Tons/Yr:2

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 800227
Air District Name: SC
SIC Code: 2841
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 155
Reactive Organic Gases Tons/Yr: 116
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 33

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

1000376908

SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 2
 Part. Matter 10 Micrometers and Smllr Tons/Yr:2

LOS ANGELES CO. HMS:

Region: LA
 Permit Category: Not reported
 Facility Id: 004987-005175
 Facility Type: Not reported
 Facility Status: OPEN
 Area: 22
 Permit Number: Not reported
 Permit Status: Not reported

Region: LA
 Permit Category: Not reported
 Facility Id: 004987-021487
 Facility Type: Not reported
 Facility Status: OPEN
 Area: 22
 Permit Number: Not reported
 Permit Status: Not reported

N85
NNW
1/2-1
0.813 mi.
4292 ft.

MONSANTO CHEMICAL COMPANY
2100 EAST 223RD STREET
CARSON, CA 90810
Site 3 of 3 in cluster N

RESPONSE **S104404731**
ENVIROSTOR **N/A**
Cortese
HIST CORTESE

Relative:
Higher
Actual:
23 ft.

RESPONSE:
 Facility ID: 19281200
 Site Type: State Response
 Site Type Detail: State Response or NPL
 Acres: 11
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency Description: DTSC - Site Cleanup Program
 Project Manager: Hossein Nassiri
 Supervisor: Emad Yemut
 Division Branch: Southern California Schools & Brownfields Outreach
 Site Code: 400266
 Site Mgmt. Req.: NONE SPECIFIED
 Assembly: 64
 Senate: 35
 Special Program Status: Not reported
 Status: Active
 Status Date: 04/23/1996
 Restricted Use: NO
 Funding: Responsible Party
 Latitude: 33.82291
 Longitude: -118.2383
 APN: 7315008030
 Past Use: MANUFACTURING - CHEMICALS
 Potential COC : * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS
 Confirmed COC: NONE SPECIFIED
 Potential Description: OTH, SOIL
 Alias Name: SOLUTIA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Alias Type: Alternate Name
Alias Name: 7315008030
Alias Type: APN
Alias Name: 110000749281
Alias Type: EPA (FRS #)
Alias Name: SLT43131129
Alias Type: GeoTracker Global ID
Alias Name: P43054
Alias Type: PCode
Alias Name: 400266
Alias Type: Project Code (Site Code)
Alias Name: 19281200
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2015
Comments: FY 1516 Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2013
Comments: Annual Cost Estimate sent.

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/18/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/13/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/12/2016
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/18/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/13/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/31/2017
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/13/2017

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Manual
Completed Date: 11/05/2017
Comments: No comments on the given document. DTSC concur with O&M.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/04/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 12/05/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Cost Recovery Settlements/Decrees
Completed Date: 01/13/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/22/2017
Comments: Routine monthly report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/11/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/13/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2017
Comments: DTSC made a final comment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/05/2017
Comments: DTSC concurs with this documents. Meeting with RP on 12/19 for further presentation on this project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/09/2018
Comments: This task was duplicated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Date: 05/14/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/17/2018
Comments: Conditionally approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/16/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/28/1992
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: 04/30/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/12/1989
Comments: Site Screening Done: RP in violation of DHS permit. RP prepared a Preliminary Assessment/Site Inspection report (submitted 09/88). Release of benzene and DCE to upper aquifer. Chemical dump site 1952-1965 not addressed. RP is negotiating with ICI (other RP).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/11/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Date: 03/28/1997
Comments: Approval of Remedial Design Specifications document, with Addendum prepared by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 04/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/23/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/01/2007
Comments: Workplan was reviewed by the new geologist and approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/13/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/13/2009
Comments: Approved with the condition that they add the RTCs to the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/05/2008
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/19/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/13/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/28/2008
Comments: Approved with the stipulation that we get a revised WP in ASAP that

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Direction
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MAP FINDINGS

Site

Database(s)

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MONSANTO CHEMICAL COMPANY (Continued)

S104404731

shows the extra well we are requesting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/03/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/25/2009
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 08/19/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/14/2010
Comments: This was replaced by another work plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/25/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/14/2010
Comments: Data from this report has been used for investigation and cleanup planning.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 09/06/2011
Comments: Completed & approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/12/2010
Comments: The revised Final Interim Remedial Action Work Plan appears to incorporate our previous comments relayed to Solutia on 9/15/10.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/2010
Comments: received

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2011
Comments: Document received. Data will be used to make decisions regarding the cleanup of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/26/2013
Comments: Monthly GW monitoring Report for September 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/13/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/19/2010
Comments: Received report on time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/15/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Document Type: Other Report
Completed Date: 12/10/2010
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/10/2011
Comments: Received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/06/2011
Comments: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/12/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/10/2011
Comments: Receipt of report acknowledged.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/16/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/03/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/08/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/08/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Date: 09/11/2012
Comments: Monthly progress report for soil gas and groundwater, Septemeber 2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/25/2013
Comments: O/M - Routine GW monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/31/2012
Comments: Monthly Progress Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2013
Comments: Monthly Progress Report for month of March 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/12/2013
Comments: Monthly Progress Report

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/13/2013
Comments: Monthly Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/26/2013
Comments: Monthly Progress Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/26/2014
Comments: Routine monthly progress report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/13/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/16/2014
Comments: Routine monthly progress report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Date: 09/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/20/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/13/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 03/19/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/22/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/29/2012
Comments: No Further Action for Soil is Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/12/2013
Comments: GW monitoring report for August.

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
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MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/14/2013
Comments: Addendum Report - Part of Monthly Monitoring Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/19/2014
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 11/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/07/1996
Comments: DTSC signed a Consent Order with the RPs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 04/14/1995
Comments: The CEQA documents (Negative Declaration) and the Remedial Action Plan are approved following a 30-day public comment period. The recommended alternative includes the following elements: institutional controls; monitoring; excavation, in-situ and ex-situ bio-treatment, soil vapor extraction and bioventing of deep soils and

Map ID
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Elevation

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Database(s)

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MONSANTO CHEMICAL COMPANY (Continued)

S104404731

shallow soils; thermal/catalytic oxidation of soil vapor; vacuum enhanced LNAPL recovery with total fluids pumps; recovered LNAPL disposal by a certified waste recycler or a permitted hazardous waste TSDF; groundwater remediation by air sparging within the SVE capture radius and plume of groundwater contamination; if necessary groundwater extraction and treatment with air stripping followed by GAC; and treated groundwater discharge to the sanitary sewer. Sparging would not be implemented until the LNAPL had been removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 10/29/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: FY 1617 Annual Oversight Cost Estimate completed and mailed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/14/2014
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2022
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 06/14/2018
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedy Constructed: Operating Properly & Successfully
Schedule Due Date: 03/30/2019
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 19281200
Status: Active
Status Date: 04/23/1996
Site Code: 400266
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 11
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Hossein Nassiri
Supervisor: Emad Yemut
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 64

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.82291
Longitude: -118.2383
APN: 7315008030
Past Use: MANUFACTURING - CHEMICALS
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL
Alias Name: SOLUTIA
Alias Type: Alternate Name
Alias Name: 7315008030
Alias Type: APN
Alias Name: 110000749281
Alias Type: EPA (FRS #)
Alias Name: SLT43131129
Alias Type: GeoTracker Global ID
Alias Name: P43054
Alias Type: PCode
Alias Name: 400266
Alias Type: Project Code (Site Code)
Alias Name: 19281200
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/09/2015
Comments: FY 1516 Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/21/2013
Comments: Annual Cost Estimate sent.

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/18/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/13/2015
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/06/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/12/2016
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/19/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/18/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/13/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/12/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Date: 01/31/2017
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Manual
Completed Date: 11/05/2017
Comments: No comments on the given document. DTSC concur with O&M.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/04/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 12/05/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Cost Recovery Settlements/Decrees
Completed Date: 01/13/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/21/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/22/2017
Comments: Routine monthly report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/17/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/13/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/12/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/11/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/13/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/25/2017
Comments: DTSC made a final comment.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 11/05/2017
Comments: DTSC concurs with this documents. Meeting with RP on 12/19 for further presentation on this project.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 04/09/2018
Comments: This task was duplicated.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Document Type: Other Report
Completed Date: 02/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/14/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/17/2018
Comments: Conditionally approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/16/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/09/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/28/1992
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: 04/30/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/12/1989
Comments: Site Screening Done: RP in violation of DHS permit. RP prepared a

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
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MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Preliminary Assessment/Site Inspection report (submitted 09/88).
Release of benzene and DCE to upper aquifer. Chemical dump site
1952-1965 not addressed. RP is negotiating with ICI (other RP).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 01/11/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/28/1997
Comments: Approval of Remedial Design Specifications document, with Addendum prepared by DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 04/14/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/23/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/01/2007
Comments: Workplan was reviewed by the new geologist and approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/13/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/13/2009
Comments: Approved with the condition that they add the RTCs to the document.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 08/05/2008
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 08/19/2009

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/13/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 10/28/2008
Comments: Approved with the stipulation that we get a revised WP in ASAP that shows the extra well we are requesting.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/03/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/25/2009
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Installation Workplan
Completed Date: 08/19/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 09/14/2010
Comments: This was replaced by another work plan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/25/2009
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/14/2010
Comments: Data from this report has been used for investigation and cleanup planning.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 09/06/2011
Comments: Completed & approved

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/12/2010
Comments: The revised Final Interim Remedial Action Work Plan appears to incorporate our previous comments relayed to Solutia on 9/15/10.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/31/2010
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/18/2011
Comments: Document received. Data will be used to make decisions regarding the cleanup of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/26/2013
Comments: Monthly GW monitoring Report for September 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/13/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/19/2010
Comments: Received report on time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/15/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/10/2010
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/10/2011
Comments: Received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2011
Comments: received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/06/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/12/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/10/2011
Comments: Receipt of report acknowledged.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/10/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/16/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/03/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/22/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/08/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/08/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/14/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/11/2012
Comments: Monthly progress report for soil gas and groundwater, Septemeber 2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/17/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/25/2013
Comments: O/M - Routine GW monitoring report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/31/2012
Comments: Monthly Progress Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/06/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2013

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Comments: Monthly Progress Report for month of March 2013

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/12/2013
Comments: Monthly Progress Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/11/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/13/2013
Comments: Monthly Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/26/2013
Comments: Monthly Progress Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/26/2014
Comments: Routine monthly progress report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/13/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/17/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 07/16/2014
Comments: Routine monthly progress report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/19/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 09/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/20/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 12/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/13/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 03/19/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 12/22/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 06/29/2012
Comments: No Further Action for Soil is Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/12/2013
Comments: GW monitoring report for August.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 10/14/2013
Comments: Addendum Report - Part of Monthly Monitoring Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/19/2014
Comments: Not reported

Completed Area Name: MONSANTO CHEMICAL COMPANY - Soil OU
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/01/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Design - Preliminary/Intermediate
Completed Date: 11/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/11/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/16/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/07/1996
Comments: DTSC signed a Consent Order with the RPs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 04/14/1995
Comments: The CEQA documents (Negative Declaration) and the Remedial Action Plan are approved following a 30-day public comment period. The recommended alternative includes the following elements: institutional controls; monitoring; excavation, in-situ and ex-situ bio-treatment, soil vapor extraction and bioventing of deep soils and shallow soils; thermal/catalytic oxidation of soil vapor; vacuum enhanced LNAPL recovery with total fluids pumps; recovered LNAPL disposal by a certified waste recycler or a permitted hazardous waste TSDF; groundwater remediation by air sparging within the SVE capture radius and plume of groundwater contamination; if necessary groundwater extraction and treatment with air stripping followed by GAC; and treated groundwater discharge to the sanitary sewer. Sparging would not be implemented until the LNAPL had been removed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 10/29/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2016
Comments: FY 1617 Annual Oversight Cost Estimate completed and mailed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/14/2014
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2022
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Operations and Maintenance Plan
Schedule Due Date: 06/14/2018
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedy Constructed: Operating Properly & Successfully
Schedule Due Date: 03/30/2019
Schedule Revised Date: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

MONSANTO CHEMICAL COMPANY (Continued)

S104404731

CORTESE:

Region: CORTESE
 Envirostor Id: 19281200
 Site/Facility Type: STATE RESPONSE
 Cleanup Status: ACTIVE
 Status Date: 04/23/1996
 Site Code: 400266
 Latitude: 33.822919
 Longitude: -118.23838
 Owner: Not reported
 Enf Type: Not reported
 Swat R: Not reported
 Flag: envirostor
 Order No: Not reported
 Waste Discharge System No: Not reported
 Effective Date: Not reported
 Region 2: Not reported
 WID Id: Not reported
 Solid Waste Id No: Not reported
 Waste Management Uit Name: Not reported
 File Name: Haz Waste & Substances Sites

HIST CORTESE:

Region: CORTESE
 Facility County Code: 19
 Reg By: CALSI
 Reg Id: 19281200

86
NNW
1/2-1
0.826 mi.
4360 ft.

COONS TRUST PROPERTY
2254 E. 223RD STREET
CARSON, CA 90810

ENVIROSTOR **S107616202**
CPS-SLIC **N/A**
VCP
DEED

Relative:
Higher
Actual:
23 ft.

ENVIROSTOR:

Facility ID: 70000172
 Status: Certified O&M - Land Use Restrictions Only
 Status Date: 12/21/2005
 Site Code: 401673
 Site Type: Voluntary Cleanup
 Site Type Detailed: Voluntary Cleanup
 Acres: 10
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Isaac Hirbawi
 Supervisor: Maryam Tasnif-Abbasi
 Division Branch: Cleanup Cypress
 Assembly: 64
 Senate: 35
 Special Program: Voluntary Cleanup Program
 Restricted Use: YES
 Site Mgmt Req: DAY, ELD, HOS, LUC, GW, NUSE, NDEV, NSUB, SCH, FOOD, RES
 Funding: Responsible Party
 Latitude: 33.82426
 Longitude: -118.2350
 APN: 7315007012, 7315007903

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Past Use: MANUFACTURING - CHEMICALS
Potential COC: 1,1,1-Trichloroethane (TCA Vinyl chloride)
Confirmed COC: 1,1,1-Trichloroethane (TCA Vinyl chloride)
Potential Description: OTH, SOIL
Alias Name: 7315007012
Alias Type: APN
Alias Name: 7315007903
Alias Type: APN
Alias Name: 110033613613
Alias Type: EPA (FRS #)
Alias Name: 401261
Alias Type: Project Code (Site Code)
Alias Name: 401673
Alias Type: Project Code (Site Code)
Alias Name: 70000172
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/28/2016
Comments: FY 2016/2017 ACE completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2015
Comments: Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/01/2011
Comments: Reminder letter sent for unpaid invoice balances.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: LUR - Notification Response
Completed Date: 06/26/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/26/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/15/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Comments: Provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2010
Comments: Site inspection of Coons Trust Property took place on 6/15/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 06/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/15/2005
Comments: Deed Restriction/Land use covenant was recorded. This is the final activity under the EOA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/21/2005
Comments: Land Use Restriction recorded with Los Angeles County on 12/21/2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/14/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/11/2018
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 04/15/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/26/2014
Comments: Executed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction - Amendment
Schedule Due Date: 09/23/2018
Schedule Revised Date: Not reported

CPS-SLIC:

Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/21/2015
Global Id: SLT43302300
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.824283
Longitude: -118.23659
Case Type: Cleanup Program Site
Case Worker: AGH
Local Agency: Not reported
RB Case Number: 0496C1
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

VCP:

Facility ID: 70000172
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: DAY, ELD, HOS, LUC, GW, NUSE, NDEV, NSUB, SCH, FOOD, RES
Acres: 10
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Isaac Hirbawi
Supervisor: Maryam Tasnif-Abbasi
Division Branch: Cleanup Cypress
Site Code: 401673

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Assembly: 64
Senate: 35
Special Programs Code: Voluntary Cleanup Program
Status: Certified O&M - Land Use Restrictions Only
Status Date: 12/21/2005
Restricted Use: YES
Funding: Responsible Party
Lat/Long: 33.82426 / -118.2350
APN: 7315007012, 7315007903
Past Use: MANUFACTURING - CHEMICALS
Potential COC: 30026, 30028
Confirmed COC: 30026,30028
Potential Description: OTH, SOIL
Alias Name: 7315007012
Alias Type: APN
Alias Name: 7315007903
Alias Type: APN
Alias Name: 110033613613
Alias Type: EPA (FRS #)
Alias Name: 401261
Alias Type: Project Code (Site Code)
Alias Name: 401673
Alias Type: Project Code (Site Code)
Alias Name: 70000172
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/28/2016
Comments: FY 2016/2017 ACE completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/20/2015
Comments: Annual Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 04/01/2011
Comments: Reminder letter sent for unpaid invoice balances.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: LUR - Notification Response
Completed Date: 06/26/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/26/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/26/2014
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/15/2014
Comments: Provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Provided comments.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 06/15/2010
Comments: Site inspection of Coons Trust Property took place on 6/15/2010.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 06/29/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/15/2005
Comments: Deed Restriction/Land use covenant was recorded. This is the final activity under the EOA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/21/2005
Comments: Land Use Restriction recorded with Los Angeles County on 12/21/2005.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COONS TRUST PROPERTY (Continued)

S107616202

Completed Date: 02/14/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/11/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Reimbursement Agreement
Completed Date: 04/15/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/26/2014
Comments: Executed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction - Amendment
Schedule Due Date: 09/23/2018
Schedule Revised Date: Not reported

DEED:

Envirostor ID: 70000172
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 12/21/2005
File Name: Envirostor Land Use Restrictions

O87 PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT
WSW 1520 E SEPULVEDA BLVD
1/2-1 CARSON, CA 90745
0.840 mi. Site 1 of 3 in cluster O
4437 ft.
Relative:
Higher
Actual:
39 ft.

CORRACTS 1000904828
RCRA-TSDF 90745NCLCR1520E
RCRA-LQG
UST
SWEEPS UST
CA FID UST
CHMIRS
US FIN ASSUR
2020 COR ACTION
TRIS
EMI
LOS ANGELES CO. HMS

CORRACTS:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

EPA ID: CAD980881676
EPA Region: 9
Area Name: GROUND WATER
Actual Date: 19940901
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: GROUND WATER
Actual Date: 19940901
Action: CA200 - RFI Approved
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: GROUND WATER
Actual Date: 19940901
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19941003
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19941003
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20010309
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20010309
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20010309
Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20010309
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920624
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19920624
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19920624
Action: CA050 - RFA Completed
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19920624
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20020927
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20020927
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: GROUND WATER
Actual Date: 19880930
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD980881676
EPA Region: 9
Area Name: GROUND WATER
Actual Date: 19880930

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Action: CA100 - RFI Imposition
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/26/2016
Facility name: PHILLIPS 66 - LOS ANGELES REFINERY CARSON PLANT
Facility address: 1520 E. SEPULVEDS BLVD.
CARSON, CA 90745
EPA ID: CAD980881676
Mailing address: WEST ANAHEIM STREET
WILMINGTON, CA 90744
Contact: MARSHALL G WALLER
Contact address: WEST ANAHEIM STREET
WILMINGTON, CA 90744
Contact country: US
Contact telephone: 310-952-6120
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: PHILLIPS 66 COMPANY
Owner/operator address: WEST ANAHEIM STREET
WILMINGTON, CA 90744
Owner/operator country: US
Owner/operator telephone: 310-952-6000
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: 05/01/2012
Owner/Op end date: Not reported
Owner/operator name: PHILLIPS 66 COMPANY
Owner/operator address: Not reported
Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Owner/operator country: Not reported
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: 05/01/2012
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

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 162
. Waste name: Other spent catalyst

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D035
- . Waste name: METHYL ETHYL KETONE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

Historical Generators:

- Date form received by agency: 03/01/2014
- Site name: PHILLIPS 66 - LOS ANGELES REFINERY CARSON PLANT
- Classification: Large Quantity Generator

- . Waste code: 141
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 213
- . Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 352

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

- . Waste name: Other organic solids
- . Waste code: 611
- . Waste name: Contaminated soil from site clean-ups
- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D007
- . Waste name: CHROMIUM
- . Waste code: D008
- . Waste name: LEAD
- . Waste code: D018
- . Waste name: BENZENE
- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.
- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY
- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

Date form received by agency: 04/27/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Site name: CONOCOPHILLIPS - LOS ANGELES REFINERY CARSON PLANT
Classification: Large Quantity Generator

. Waste code: 162
. Waste name: Other spent catalyst

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 461
. Waste name: Degreasing sludge

. Waste code: 611
. Waste name: Contaminated soil from site clean-ups

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K049
- . Waste name: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- Date form received by agency: 04/18/2012
- Site name: LOS ANGELES REFINERY CARSON PLANT
- Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K048
 - . Waste name: DISSOLVED AIR FLOTATION (DAF) FLOAT FROM THE PETROLEUM REFINING INDUSTRY

 - . Waste code: K049
 - . Waste name: SLOP OIL EMULSION SOLIDS FROM THE PETROLEUM REFINING INDUSTRY

 - . Waste code: K050
 - . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

 - . Waste code: K051
 - . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

 - . Waste code: K169
 - . Waste name: Crude oil storage tank sediment from petroleum refining operations.

 - . Waste code: K170
 - . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

 - . Waste code: K171
 - . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

 - . Waste code: K172
 - . Waste name: Spent hydro refining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media).
- Date form received by agency: 06/15/2010
Site name: CONOCOPHILLIPS CO - LARC
Classification: Large Quantity Generator
- . Waste code: D001
 - . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

 - . Waste code: D002
 - . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

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USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

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Date form received by agency: 02/15/2008

Site name: CONOCOPHILLIPS CO. LAR, CARSON PLANT

Classification: Large Quantity Generator

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002

. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D003

. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004

. Waste name: ARSENIC

. Waste code: D006

. Waste name: CADMIUM

. Waste code: D008

. Waste name: LEAD

. Waste code: D009

. Waste name: MERCURY

. Waste code: D018

. Waste name: BENZENE

. Waste code: F037

. Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

. Waste code: K050
. Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

. Waste code: K171
. Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/21/2006

Site name: CONOCOPHILLIPS CO. LAR, CARSON PLANT

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: F037
. Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

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. Waste code: K050
. Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

. Waste code: K171
. Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/26/2004

Site name: CONOCOPHILLIPS CO. LAR, CARSON PLANT

Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: K050
. Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

. Waste code: K171
. Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 11/25/2002

Site name: LOS ANGELES REFINERY CARSON

Classification: Large Quantity Generator

Date form received by agency: 03/08/2002

Site name: TOSCO CORPORATION, LAR, CARSON PLANT

Classification: Large Quantity Generator

Date form received by agency: 10/12/2000

Site name: TOSCO LOS ANGELES REFINERY - CARSON

Classification: Large Quantity Generator

Date form received by agency: 03/04/1999

Site name: TOSCO LOS ANGELES REFINERY - CARSON

Classification: Large Quantity Generator

Date form received by agency: 03/07/1997

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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Site name: TOSCO LOS ANGELES REFINERY
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996

Site name: TOSCO LOS ANGELES REFINERY
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996

Site name: 76 PRODUCTS CO LAR CARSON PLANT
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994

Site name: UNOCAL LOS ANGELES REFINERY-CARSON PLANT
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 1538

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Amount (Lbs): 175155

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 1095

Waste code: D008
Waste name: LEAD
Amount (Lbs): 16457

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 2690

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 67920

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 1244

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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Waste code: F037
Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.
Amount (Lbs): 73460

Waste code: K050
Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY
Amount (Lbs): 73460

Waste code: K051
Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY
Amount (Lbs): 73460

Corrective Action Summary:

Event date: 09/30/1988
Event: STABILIZATION/INTERIM MEASURES DECISION-GROUNDWATER EXTRACTION & TREATMENT

Event date: 09/30/1988
Event: INVESTIGATION IMPOSITION

Event date: 12/29/1988
Event: PA OR CERCLA INSPECTION

Event date: 01/28/1991
Event: LEAD AGENCY DETERMINATION

Event date: 01/28/1991
Event: CA PRIORITIZATION-HIGH CA PRIORITY

Event date: 01/28/1991
Event: NCAPS RANKING/PRIORITY

Event date: 01/28/1991
Event: PA OR CERCLA INSPECTION

Event date: 06/24/1992
Event: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY

Event date: 06/24/1992
Event: RFA COMPLETED-ASSESSMENT WAS A RFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Event date:	06/24/1992
Event:	RFA COMPLETED
Event date:	07/10/1992
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	01/14/1993
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	01/14/1993
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	01/27/1994
Event:	INVESTIGATION IMPOSITION
Event date:	01/27/1994
Event:	CMS IMPOSITION
Event date:	09/01/1994
Event:	INVESTIGATION WORKPLAN APPROVED
Event date:	09/01/1994
Event:	STABILIZATION CONSTRUCTION COMPLETED
Event date:	09/01/1994
Event:	INVESTIGATION COMPLETE
Event date:	10/03/1994
Event:	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
Event date:	10/03/1994
Event:	STABILIZATION MEASURES EVALUATION-FURTHER INVESTIGATION NECESSARY
Event date:	10/03/1994
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	10/29/1997
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	10/29/1997
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	10/29/1997
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	03/09/2001
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	03/09/2001
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	03/09/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/09/2001
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 09/27/2002
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 09/27/2002
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: Not reported
Event: 3004(U) C/A UNDER PERMIT

Event date: Not reported
Event: RFA NEED BY ANOTHER AGCY

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 10/08/2015
Date achieved compliance: 10/27/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/08/2015
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: Not reported
Area of violation: Universal Waste - General
Date violation determined: 05/05/2015
Date achieved compliance: 05/06/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/06/2015
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: Not reported
Area of violation: Generators - General
Date violation determined: 05/05/2015
Date achieved compliance: 05/28/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/06/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

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: Not reported
Area of violation: Universal Waste - General
Date violation determined: 05/05/2015
Date achieved compliance: 05/08/2015
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/06/2015
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: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/20/2012
Date achieved compliance: 06/20/2012
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/05/2012
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: Not reported
Area of violation: TSD IS-Preparedness and Prevention
Date violation determined: 06/20/2012
Date achieved compliance: 09/14/2012
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/05/2012
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: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 07/28/2009
Date achieved compliance: 08/03/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/29/2009
Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

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: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 01/30/2008
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 04/30/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 2500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 01/30/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/30/2008
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: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/19/2007
Date achieved compliance: 01/30/2008
Violation lead agency: State
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 03/26/2008
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: Not reported
Area of violation: Generators - General
Date violation determined: 03/21/2006
Date achieved compliance: 03/22/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/22/2006
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/20/2006
Date achieved compliance: Not reported
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: Not reported
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 12/17/2003
Date achieved compliance: 12/18/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/18/2003
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: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 04/03/2002
Date achieved compliance: 12/22/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2002
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: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 04/03/2002
Date achieved compliance: 03/05/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 04/03/2002
Date achieved compliance: 12/22/2004
Violation lead agency: State
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 05/12/2005
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: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 04/03/2002
Date achieved compliance: 12/22/2004
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 09/28/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 22500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/14/2000
Date achieved compliance: 11/15/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/15/2000
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: 12/18/1996
Date achieved compliance: 11/11/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/18/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/18/1995
Date achieved compliance: 02/02/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1995
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 - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 01/18/1995
Date achieved compliance: 02/20/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1995
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 - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 12/21/1994
Date achieved compliance: 12/21/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/18/1995
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: 07/06/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/08/2015
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 10/27/2015
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Evaluation date: 08/24/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 07/09/2015
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/05/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - General
Date achieved compliance: 05/08/2015
Evaluation lead agency: State

Evaluation date: 05/05/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/28/2015
Evaluation lead agency: State

Evaluation date: 05/05/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - General
Date achieved compliance: 05/06/2015
Evaluation lead agency: State

Evaluation date: 08/14/2012
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/20/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/20/2012
Evaluation lead agency: State

Evaluation date: 06/20/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: 09/14/2012
Evaluation lead agency: State

Evaluation date: 08/19/2009
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/28/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Date achieved compliance: 08/03/2009
Evaluation lead agency: State

Evaluation date: 02/07/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/30/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 01/30/2008
Evaluation lead agency: State

Evaluation date: 12/19/2007
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/30/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/21/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/22/2006
Evaluation lead agency: State

Evaluation date: 03/20/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 12/27/2005
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 12/22/2004
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Evaluation date:	05/14/2004
Evaluation:	FINANCIAL RECORD REVIEW
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	12/17/2003
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - Contingency Plan and Emergency Procedures
Date achieved compliance:	12/18/2003
Evaluation lead agency:	State
Evaluation date:	04/03/2002
Evaluation:	SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	04/03/2002
Evaluation:	OPERATION AND MAINTENANCE INSPECTION
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved compliance:	12/22/2004
Evaluation lead agency:	State
Evaluation date:	04/03/2002
Evaluation:	OPERATION AND MAINTENANCE INSPECTION
Area of violation:	TSD IS-Ground-Water Monitoring
Date achieved compliance:	03/05/2004
Evaluation lead agency:	State
Evaluation date:	01/23/2002
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	11/14/2000
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	11/15/2000
Evaluation lead agency:	State
Evaluation date:	01/19/2000
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	06/30/1999
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	12/16/1996
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD - General

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Date achieved compliance: 11/11/1997
Evaluation lead agency: State

Evaluation date: 12/21/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/02/1995
Evaluation lead agency: State

Evaluation date: 12/21/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/21/1994
Evaluation lead agency: State

Evaluation date: 12/21/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/20/1995
Evaluation lead agency: State

Evaluation date: 10/04/1994
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/24/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

UST:

Facility ID: LACoFA0024438
Permitting Agency: Los Angeles County Fire Department
Latitude: 33.804
Longitude: -118.24361

SWEEPS UST:

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0018
SWRCB Tank Id: 19-000-016650-000001
Tank Status: A
Capacity: 129250
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: 17

Map ID
Direction
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0021
SWRCB Tank Id: 19-000-016650-000002
Tank Status: A
Capacity: 4260
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0022
SWRCB Tank Id: 19-000-016650-000003
Tank Status: A
Capacity: 115680
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0024
SWRCB Tank Id: 19-000-016650-000004
Tank Status: A
Capacity: 1620
Active Date: 04-03-92
Tank Use: CHEMICAL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92

Map ID
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Distance
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MAP FINDINGS

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Database(s)

EDR ID Number
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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Created Date: 04-03-92
Owner Tank Id: 0025
SWRCB Tank Id: 19-000-016650-000005
Tank Status: A
Capacity: 1620
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0026
SWRCB Tank Id: 19-000-016650-000006
Tank Status: A
Capacity: 1500
Active Date: 04-03-92
Tank Use: CHEMICAL
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0027
SWRCB Tank Id: 19-000-016650-000007
Tank Status: A
Capacity: 1500
Active Date: 04-03-92
Tank Use: CHEMICAL
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0028
SWRCB Tank Id: 19-000-016650-000008
Tank Status: A
Capacity: 1500
Active Date: 04-03-92

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Tank Use: CHEMICAL
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0036
SWRCB Tank Id: 19-000-016650-000009
Tank Status: A
Capacity: 14580
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0037
SWRCB Tank Id: 19-000-016650-000010
Tank Status: A
Capacity: 185000
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0061
SWRCB Tank Id: 19-000-016650-000011
Tank Status: A
Capacity: 6000
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0064
SWRCB Tank Id: 19-000-016650-000012
Tank Status: A
Capacity: 18400
Active Date: 04-03-92
Tank Use: OIL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0075
SWRCB Tank Id: 19-000-016650-000013
Tank Status: A
Capacity: 2750
Active Date: 04-03-92
Tank Use: OIL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: WPL-1
SWRCB Tank Id: 19-000-016650-000014
Tank Status: A
Capacity: 2000
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92

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Owner Tank Id: WPL-8
SWRCB Tank Id: 19-000-016650-000015
Tank Status: A
Capacity: 971
Active Date: 04-03-92
Tank Use: OIL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0083
SWRCB Tank Id: 19-000-016650-000016
Tank Status: A
Capacity: 750
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 16650
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-03-92
Action Date: 04-03-92
Created Date: 04-03-92
Owner Tank Id: 0038/10
SWRCB Tank Id: 19-000-016650-000017
Tank Status: A
Capacity: 185000
Active Date: 04-03-92
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 19036020
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 3105188412
Mail To: Not reported
Mailing Address: PO BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: CARSON 90745
Contact: Not reported
Contact Phone: Not reported

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1000904828

DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CHMIRS:

OES Incident Number: 0-3869
OES notification: 08/28/2000
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
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: none
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2000
Agency: Tosco Refinery
Incident Date: 8/28/200012:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: No
Site Type: Refinery
E Date: Not reported
Substance: Nitrogen Oxide
Gallons: 0.000000
Unknown: 0

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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:	Having excess flaring, possibly from power outage. Still investigating
OES Incident Number:	0-2963
OES notification:	07/03/2000
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
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:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported

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Year:	2000
Agency:	Tosco Refining Co
Incident Date:	7/1/2000 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Nitrogen Dioxide
Gallons:	0.000000
Pounds:	26
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:	Two boilers at the Carson site have flue gas re-circulation (FGR) fans. Due to a momentary power blip, the FGR's shut down. The boilers kept running but the FGR fans shut down.
OES Incident Number:	0-3531
OES notification:	08/07/2000
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 Agency 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

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Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	none
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Tosco Refining
Incident Date:	8/7/200012:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	No
Site Type:	Refinery
E Date:	Not reported
Substance:	Hydrogen Sulfide
Gallons:	0.000000
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:	Being release from one of the East Flare starting at 0700. Having hard keeping flare lit. Currently the flare is lit, still trouble shooting this issue.
OES Incident Number:	16-4991
OES notification:	08/16/2016
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

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Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agency 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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	n/a
Spill Site:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Lbs.
Other:	Not reported
Date/Time:	1000
Year:	2016
Agency:	Phillips 66 Carson
Incident Date:	Not reported
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	n/a
E Date:	Not reported
Substance:	Sulfur Dioxide
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states: Sulfur Dioxide being combusted at

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flares, more than 500lbs has been released to the atmosphere. Reason for flare is under investigation. Release is contained and no longer releasing as of approximately 1040 hours. No waterways impacted. Rel

OES Incident Number:	802
OES notification:	Not reported
OES Date:	4/18/1994
OES Time:	04:05:46 PM
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	refinery maintenance crew
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	unocal
Incident Date:	18/1600 apr 94
Admin Agency:	Not reported
Amount:	1bbl
Contained:	NO
Site Type:	REF PL
E Date:	Not reported
Substance:	light coker gas oil
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported

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PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

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Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#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:	pipeline blocked shut , over pressured and caused valve to leak, due to warm weather
OES Incident Number:	1-2372
OES notification:	04/23/2001
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Tosco

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Incident Date:	4/23/2001 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Unknown
Site Type:	Refinery
E Date:	Not reported
Substance:	Fire
Unknown:	0.000000
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:	A raw gas compressor at the cocker unit caught on fire. The fire has spread to other parts of the refinery. Actual cause still under investigation.
OES Incident Number:	12-0011
OES notification:	01/02/2012
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No

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Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	852
Year:	2012
Agency:	Conoco Phillips
Incident Date:	1/2/2012
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	Sulfur Dioxide, SO2
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	During a planned flaring event the release occurred, material combusted and vented directly into the atmosphere, release is still occurring and no clean up needed.
OES Incident Number:	2-6441
OES notification:	11/25/2002
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

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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
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:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Conocophillips Co
Incident Date:	11/25/200212:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	SO2
Gallons:	0.000000
Pounds:	500
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:	Per caller, an upset of a refinery caused the release.

US FIN ASSUR:

EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	F
Mechanism Type Description:	FINANCIAL TEST

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Cost estimate:	607000
Face value:	1928270
Effective date:	2008-03-24 00:00:00
Provider:	CONOCO-PHILLIPS
EPA region:	9
EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	C
Mechanism Type Description:	CORPORATE GUARANTEE
Cost estimate:	8000000
Face value:	11260881.75
Effective date:	2017-03-23 00:00:00
Provider:	PHILLIPS 66
EPA region:	9
EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	C
Mechanism Type Description:	CORPORATE GUARANTEE
Cost estimate:	2200000
Face value:	2547023.13
Effective date:	2015-03-24 00:00:00
Provider:	PHILLIPS 66
EPA region:	9
EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	C
Mechanism Type Description:	CORPORATE GUARANTEE
Cost estimate:	2000000
Face value:	2000000
Effective date:	2015-03-24 00:00:00
Provider:	PHILLIPS 66
EPA region:	9
EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	C
Mechanism Type Description:	CORPORATE GUARANTEE
Cost estimate:	1928270
Face value:	621516.81
Effective date:	2011-03-22 00:00:00
Provider:	CONOCO PHILLIPS
EPA region:	9
EPA ID:	CAD980881676
County:	Not reported
Mechanism type:	C
Mechanism Type Description:	CORPORATE GUARANTEE
Cost estimate:	2258630
Face value:	11260881.75
Effective date:	2017-03-23 00:00:00
Provider:	PHILLIPS 66
EPA region:	9
EPA ID:	CAD980881676

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

County: Not reported
Mechanism type: C
Mechanism Type Description: CORPORATE GUARANTEE
Cost estimate: 6000000
Face value: 6000000
Effective date: 2015-03-24 00:00:00
Provider: PHILLIPS 66
EPA region: 9

2020 COR ACTION:

EPA ID: CAD980881676
Region: 9
Action: Not reported

TRIS:

[Click this hyperlink](#) while viewing on your computer to access 22 additional US_TRIS: record(s) in the EDR Site Report.

EMI:

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 800319
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 302
Reactive Organic Gases Tons/Yr: 250
Carbon Monoxide Emissions Tons/Yr: 61
NOX - Oxides of Nitrogen Tons/Yr: 522
SOX - Oxides of Sulphur Tons/Yr: 149
Particulate Matter Tons/Yr: 174
Part. Matter 10 Micrometers and Smlr Tons/Yr:136

Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 800319
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 140
Reactive Organic Gases Tons/Yr: 117
Carbon Monoxide Emissions Tons/Yr: 336
NOX - Oxides of Nitrogen Tons/Yr: 789
SOX - Oxides of Sulphur Tons/Yr: 343
Particulate Matter Tons/Yr: 183
Part. Matter 10 Micrometers and Smlr Tons/Yr:137

Year: 1997
County Code: 19
Air Basin: SC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 347
Reactive Organic Gases Tons/Yr: 263
Carbon Monoxide Emissions Tons/Yr: 271
NOX - Oxides of Nitrogen Tons/Yr: 822
SOX - Oxides of Sulphur Tons/Yr: 587
Particulate Matter Tons/Yr: 134
Part. Matter 10 Micrometers and Smlr Tons/Yr:103

Year: 1998
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 328
Reactive Organic Gases Tons/Yr: 247
Carbon Monoxide Emissions Tons/Yr: 271
NOX - Oxides of Nitrogen Tons/Yr: 207
SOX - Oxides of Sulphur Tons/Yr: 310
Particulate Matter Tons/Yr: 134
Part. Matter 10 Micrometers and Smlr Tons/Yr:103

Year: 1999
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 347
Reactive Organic Gases Tons/Yr: 263
Carbon Monoxide Emissions Tons/Yr: 271
NOX - Oxides of Nitrogen Tons/Yr: 822
SOX - Oxides of Sulphur Tons/Yr: 587
Particulate Matter Tons/Yr: 134
Part. Matter 10 Micrometers and Smlr Tons/Yr:103

Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Total Organic Hydrocarbon Gases Tons/Yr: 347
Reactive Organic Gases Tons/Yr: 263
Carbon Monoxide Emissions Tons/Yr: 271
NOX - Oxides of Nitrogen Tons/Yr: 822
SOX - Oxides of Sulphur Tons/Yr: 587
Particulate Matter Tons/Yr: 134
Part. Matter 10 Micrometers and Smlr Tons/Yr:103

Year: 2001
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: B
Total Organic Hydrocarbon Gases Tons/Yr: 182
Reactive Organic Gases Tons/Yr: 133
Carbon Monoxide Emissions Tons/Yr: 416
NOX - Oxides of Nitrogen Tons/Yr: 462
SOX - Oxides of Sulphur Tons/Yr: 773
Particulate Matter Tons/Yr: 52
Part. Matter 10 Micrometers and Smlr Tons/Yr:40

Year: 2002
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 189
Reactive Organic Gases Tons/Yr: 133
Carbon Monoxide Emissions Tons/Yr: 493
NOX - Oxides of Nitrogen Tons/Yr: 367
SOX - Oxides of Sulphur Tons/Yr: 597
Particulate Matter Tons/Yr: 47
Part. Matter 10 Micrometers and Smlr Tons/Yr:43

Year: 2003
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 189
Reactive Organic Gases Tons/Yr: 133
Carbon Monoxide Emissions Tons/Yr: 493
NOX - Oxides of Nitrogen Tons/Yr: 367
SOX - Oxides of Sulphur Tons/Yr: 597
Particulate Matter Tons/Yr: 47

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Part. Matter 10 Micrometers and Smlr Tons/Yr:43

Year: 2004
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 189.45227
Reactive Organic Gases Tons/Yr: 136.78
Carbon Monoxide Emissions Tons/Yr: 493.4898
NOX - Oxides of Nitrogen Tons/Yr: 366.6611
SOX - Oxides of Sulphur Tons/Yr: 596.78713
Particulate Matter Tons/Yr: 46.76459807
Part. Matter 10 Micrometers and Smlr Tons/Yr:42.85

Year: 2005
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 128.166855
Reactive Organic Gases Tons/Yr: 94.439378078
Carbon Monoxide Emissions Tons/Yr: 473.7925
NOX - Oxides of Nitrogen Tons/Yr: 367.994
SOX - Oxides of Sulphur Tons/Yr: 202.14671
Particulate Matter Tons/Yr: 44.937585
Part. Matter 10 Micrometers and Smlr Tons/Yr:41.1433707665

Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 177.9220019818509536
Reactive Organic Gases Tons/Yr: 122.517
Carbon Monoxide Emissions Tons/Yr: 448.175
NOX - Oxides of Nitrogen Tons/Yr: 342.632
SOX - Oxides of Sulphur Tons/Yr: 283.808
Particulate Matter Tons/Yr: 64.298
Part. Matter 10 Micrometers and Smlr Tons/Yr:54.29174

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 800362

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 177.9087116698435207
Reactive Organic Gases Tons/Yr: 122.517
Carbon Monoxide Emissions Tons/Yr: 448.175
NOX - Oxides of Nitrogen Tons/Yr: 342.632
SOX - Oxides of Sulphur Tons/Yr: 283.808
Particulate Matter Tons/Yr: 64.298
Part. Matter 10 Micrometers and Smlr Tons/Yr:54.29174

Year: 2008
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 164.7654795445258710
Reactive Organic Gases Tons/Yr: 111.7531588582485
Carbon Monoxide Emissions Tons/Yr: 314.640145
NOX - Oxides of Nitrogen Tons/Yr: 329.5189439695073013
SOX - Oxides of Sulphur Tons/Yr: 305.3523348461076509
Particulate Matter Tons/Yr: 59.51792317
Part. Matter 10 Micrometers and Smlr Tons/Yr:52.472358054081

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 175.949098567562
Reactive Organic Gases Tons/Yr: 108.418685
Carbon Monoxide Emissions Tons/Yr: 275.04459000000003
NOX - Oxides of Nitrogen Tons/Yr: 342.42585000000003
SOX - Oxides of Sulphur Tons/Yr: 309.57515999999998
Particulate Matter Tons/Yr: 60.309235200000003
Part. Matter 10 Micrometers and Smlr Tons/Yr:52.241691890360002

Year: 2010
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 141.57311537858001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 LOS ANGELES REFINERY CARSON PLANT (Continued)

1000904828

Reactive Organic Gases Tons/Yr: 100.739358890689
Carbon Monoxide Emissions Tons/Yr: 268.84510000001501
NOX - Oxides of Nitrogen Tons/Yr: 330.59667000003299
SOX - Oxides of Sulphur Tons/Yr: 294.57694000003102
Particulate Matter Tons/Yr: 56.095990000015
Part. Matter 10 Micrometers and Smllr Tons/Yr:48.2493827430146

Year: 2011
County Code: 19
Air Basin: SC
Facility ID: 800362
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 127.67530642
Reactive Organic Gases Tons/Yr: 91.247030547
Carbon Monoxide Emissions Tons/Yr: 269.79866
NOX - Oxides of Nitrogen Tons/Yr: 331.37327
SOX - Oxides of Sulphur Tons/Yr: 286.95819
Particulate Matter Tons/Yr: 63.536535698
Part. Matter 10 Micrometers and Smllr Tons/Yr:55.281944186

LOS ANGELES CO. HMS:

Region: LA
Permit Category: T
Facility Id: 015393-016650
Facility Type: 0
Facility Status: Closed
Area: 22
Permit Number: 00006226T
Permit Status: Closed

Region: LA
Permit Category: T
Facility Id: 015393-025493
Facility Type: 0
Facility Status: Permit
Area: 22
Permit Number: 000207380
Permit Status: Permit

Region: LA
Permit Category: T
Facility Id: 000313-025993
Facility Type: 0
Facility Status: Closed
Area: 22
Permit Number: 000240921
Permit Status: Closed

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

O88
WSW
1/2-1
0.840 mi.
4437 ft.

Relative:
Higher

Actual:
39 ft.

LOS ANGELES REFINERY, CARSON PLANT
1520 EAST SEPULVEDA BOULEVARD
CARSON, CA 90745

Site 2 of 3 in cluster O

ENVIROSTOR **S103963019**
CPS-SLIC **N/A**
CHMIRS
EMI
ENF
LOS ANGELES CO. HMS
NPDES
CIWQS

ENVIROSTOR:
Facility ID: 80001752
Status: Refer: RWQCB
Status Date: 01/01/2008
Site Code: 400277
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: RWQCB
Lead Agency: WQC
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.80400
Longitude: -118.2436
APN: 7315002021
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 7315002021
Alias Type: APN
Alias Name: CAD980881676
Alias Type: EPA Identification Number
Alias Name: 110000476128
Alias Type: EPA (FRS #)
Alias Name: 400277
Alias Type: Project Code (Site Code)
Alias Name: 80001752
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 12/29/1988
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUND WATER
Completed Document Type: RFI Report
Completed Date: 09/01/1994
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUND WATER
Completed Document Type: RFI Workplan
Completed Date: 09/01/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/28/1991
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUND WATER
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/01/1994
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUND WATER
Completed Document Type: Interim Measures Workplan
Completed Date: 09/30/1988
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUND WATER
Completed Document Type: Consent Agreement
Completed Date: 09/30/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 01/27/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Historical Operating Permit Authority
Completed Date: 03/19/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 01/14/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 09/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/10/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 10/03/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/24/1992
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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Groundwater Migration Controlled
Schedule Due Date: 10/01/2017
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedy Constructed
Schedule Due Date: 10/01/2017
Schedule Revised Date: Not reported

CPS-SLIC:

Region: STATE
Facility Status: **Open - Remediation**
Status Date: 06/30/2002
Global Id: SL372402433
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.8044499633375
Longitude: -118.247727468292
Case Type: Cleanup Program Site
Case Worker: AS
Local Agency: Not reported
RB Case Number: 0232
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Other Groundwater (uses other

MAP FINDINGS

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Potential Contaminants of Concern: than drinking water), Soil
 Benzene, Crude Oil, Diesel, Ethylbenzene, Gasoline, MTBE / TBA / Other
 Fuel Oxygenates, Naphthalene, Other Petroleum, Toluene, Total
 Petroleum Hydrocarbons (TPH), Xylene

Site History: ConocoPhillips Company operates the ConocoPhillips Los Angeles Refinery (LAR) which consists of two plants located in Carson and Wilmington, California. The Carson Plant is a 245-acre site located at 1520 E. Sepulveda Boulevard, Carson, California. These two plants have been connected by pipelines since December 1991 and together provide complete refinery facilities. The Carson Plant is a crude-oil refining, processing, and storage facility. The Carson Plant was constructed in 1923 by Shell Oil Company. It was modernized and expanded in 1980s. Currently the Plant has a processing capacity of 132,000 barrels of crude oil per day. The facility performs crude oil fractionation and heavy-end refining. The unfinished intermediate petroleum products are then piped to the Wilmington Plant for conversion to finished products. The Discharger has released wastes, among which petroleum hydrocarbons are the principal contaminants of concern, to underlying soil and groundwater. On-site evidence of these wastes includes vapor phase contaminants in soil, solid phase contaminants in soil, non-aqueous phase liquids (NAPL) above and below the water table, and dissolved phase contaminants in groundwater. Since 1985, the refinery has been under numerous directives, issued by the Water Board under authority in sections 13304 and 13267 of the California Water Code, to investigate and cleanup releases of wastes. On September 3, 2003, representatives of refineries in Carson area met with USEPA staff to discuss the presence of chemicals of concern (di-isopropyl ether [DIPE], methyl tert-butyl ether [MTBE] and tert-butyl alcohol [TBA] in groundwater underlying these facilities. Since 2003, COP has been working with RWQCB on phased program for oxygenates assessment. COP completed LNAPL Investigation in 2008, installed cluster Gage Aquifer groundwater monitoring wells in 2009. Phase 3 data package was submitted in March 2009. COP is in progress to finalize a site conceptual model for LARC in the first quarter of 2011.

[Click here to access the California GeoTracker records for this facility:](#)

CHMIRS:

OES Incident Number:	4-3823
OES notification:	07/07/2014
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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
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:	Refinery
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Lbs.
Other:	Not reported
Date/Time:	200
Year:	2014
Agency:	Phillips 66 LA Refinery
Incident Date:	7/6/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sulfur Dioxide
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Process Upset
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Other
Fatals:	No
Comments:	Not reported
Description:	RP states the a high sulfur in the fuel gas resulted in the exceedance of the RQ for SOC (500 lbs in a 24-hr period). Incident occurred, 7/6/14, 0200-0600.
OES Incident Number:	0-1778
OES notification:	04/19/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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
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:	n/a
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000
Agency:	Tosco
Incident Date:	4/19/200012:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Nitrogen Dioxide
Gallons:	0.000000
Pounds:	15
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

#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:	Lost air pollution control equipment during power outage.
OES Incident Number:	5-2512
OES notification:	04/27/2005
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
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:	2005
Agency:	Kinder Morgan
Incident Date:	4/27/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Other
E Date:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Substance:	Crude Oil
Gallons:	0.000000
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:	The caller is reporting a stain of crude oil 4 feet by 4 feet
OES Incident Number:	1-6696
OES notification:	11/10/2011
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
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:	Refinery
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Measure:	Lbs.
Other:	Not reported
Date/Time:	1325
Year:	2011
Agency:	Conoco Phillips
Incident Date:	11/10/2011
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sulfur Dioxide
Quantity Released:	Unk
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Per RP a flaring event has caused this incident which is believed to be greater than 500 pounds which is the reportable quantity.
OES Incident Number:	10-1719
OES notification:	03/11/2010
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

CA DOT PUC/ICC Number:	Not reported
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:	Refinery
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	2115
Year:	2010
Agency:	Conoco Phillips
Incident Date:	2/19/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	SOX
Quantity Released:	2300
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	The caller advised that they discovered an error in sampling from a flaring event on 2/19/2010. The flaring event lasted for one hpour on that date.

EMI:

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	171109
Air District Name:	SC
SIC Code:	2911
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	140.21964477

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Reactive Organic Gases Tons/Yr: 102.90369455
Carbon Monoxide Emissions Tons/Yr: 266.86472
NOX - Oxides of Nitrogen Tons/Yr: 328.91623
SOX - Oxides of Sulphur Tons/Yr: 217.22762
Particulate Matter Tons/Yr: 69.03032849
Part. Matter 10 Micrometers and Smllr Tons/Yr:60.381831874

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 171109
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 156.55473385
Reactive Organic Gases Tons/Yr: 115.6264743
Carbon Monoxide Emissions Tons/Yr: 285.58175
NOX - Oxides of Nitrogen Tons/Yr: 335.59228
SOX - Oxides of Sulphur Tons/Yr: 240.68301
Particulate Matter Tons/Yr: 72.50445675
Part. Matter 10 Micrometers and Smllr Tons/Yr:63.344352283

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 171109
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 113.5304512
Reactive Organic Gases Tons/Yr: 89.56729
Carbon Monoxide Emissions Tons/Yr: 125.11174
NOX - Oxides of Nitrogen Tons/Yr: 368.53168
SOX - Oxides of Sulphur Tons/Yr: 330.38315
Particulate Matter Tons/Yr: 75.30555
Part. Matter 10 Micrometers and Smllr Tons/Yr:67.02117908

Year: 2015
County Code: 19
Air Basin: SC
Facility ID: 171109
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 124.98468544
Reactive Organic Gases Tons/Yr: 96.929122522
Carbon Monoxide Emissions Tons/Yr: 124.5268415
NOX - Oxides of Nitrogen Tons/Yr: 400.8134085
SOX - Oxides of Sulphur Tons/Yr: 339.80392608
Particulate Matter Tons/Yr: 72.55000118
Part. Matter 10 Micrometers and Smllr Tons/Yr:63.96330289

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Year: 2016
County Code: 19
Air Basin: SC
Facility ID: 171109
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 116.19710414
Reactive Organic Gases Tons/Yr: 88.8373677
Carbon Monoxide Emissions Tons/Yr: 124.2899
NOX - Oxides of Nitrogen Tons/Yr: 385.388105
SOX - Oxides of Sulphur Tons/Yr: 310.999308
Particulate Matter Tons/Yr: 70.902214
Part. Matter 10 Micrometers and Smlr Tons/Yr:62.418345178

ENF:

Region: 4
Facility Id: 236009
Agency Name: ConocoPhillips Company Long Beach
Place Type: Manufacturing
Place Subtype: Petroleum Refinery
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: Not reported
Place Longitude: Not reported
SIC Code 1: 2911
SIC Desc 1: Petroleum Refining
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 11.23
Threat To Water Quality: 2
Complexity: A
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Stormwater runoff
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDESWW
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192131026
Reg Measure Id: 134971
Reg Measure Type: NPDES Permits

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Region: 4
Order #: 94-001
Npdes# CA#: CA0063185
Major-Minor: Major
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: Not reported
Status: Historical
Status Date: 01/31/1994
Effective Date: 01/31/1994
Expiration/Review Date: 12/10/1998
Termination Date: 05/23/2001
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: Not reported
Direction/Voice: Passive
Enforcement Id(EID): 241438
Region: 4
Order / Resolution Number: NOV
Enforcement Action Type: Notice of Violation
Effective Date: 03/25/2002
Adoption/Issuance Date: 03/25/2002
Achieve Date: Not reported
Termination Date: 04/25/2002
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: Revised NOV sent 3/25/02 for numerous effluent violations & late rpt submittals.
Description: Revised NOV sent 3/25/02 for numerous effluent violations and late report submittals.
Program: NPDESWW
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Region: 4
Facility Id: 236009
Agency Name: ConocoPhillips Company Long Beach
Place Type: Manufacturing
Place Subtype: Petroleum Refinery
Facility Type: Industrial
Agency Type: Privately-Owned Business

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2911
SIC Desc 1:	Petroleum Refining
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	11.23
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Cooling water: Noncontact
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDESWW
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192131026
Reg Measure Id:	134971
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	94-001
Npdes# CA#:	CA0063185
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	01/31/1994
Effective Date:	01/31/1994
Expiration/Review Date:	12/10/1998
Termination Date:	05/23/2001
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	240323

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Region: 4
Order / Resolution Number: NOV
Enforcement Action Type: Notice of Violation
Effective Date: 01/07/2002
Adoption/Issuance Date: 01/07/2002
Achieve Date: Not reported
Termination Date: 02/07/2002
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV sent 1/7/02 for numerous effluent violations and late report submittals.
Description: NOV sent 1/7/02 for numerous effluent violations and late report submittals.
Program: NPDESWW
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

Region: 4
Facility Id: 236009
Agency Name: ConocoPhillips Company Long Beach
Place Type: Manufacturing
Place Subtype: Petroleum Refinery
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: Not reported
Place Longitude: Not reported
SIC Code 1: 2911
SIC Desc 1: Petroleum Refining
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 11.23
Threat To Water Quality: 2
Complexity: A
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Stormwater runoff
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
 EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Program:	NPDESWW
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192131026
Reg Measure Id:	131111
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	01-074
Npdes# CA#:	CA0063185
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	10000
Status:	Historical
Status Date:	11/08/2006
Effective Date:	05/24/2001
Expiration/Review Date:	04/10/2006
Termination Date:	11/08/2006
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	357534
Region:	4
Order / Resolution Number:	SWB-2008-4-0025
Enforcement Action Type:	Admin Civil Liability
Effective Date:	01/20/2010
Adoption/Issuance Date:	01/20/2010
Achieve Date:	Not reported
Termination Date:	02/09/2010
ACL Issuance Date:	Not reported
EPL Issuance Date:	12/09/2008
Status:	Historical
Title:	Expedited Payment Letter for ConocoPhillips Company
Description:	Mandatory Minimum Penalty Amount Owed for Effluent Violations (0 Serious Violations + 6 Chronic Violations) \$3,000 = \$18,000 to the Cleanup & Abatement Account
Program:	NPDESWW
Latest Milestone Completion Date:	2010-02-09
# Of Programs1:	1
Total Assessment Amount:	18000
Initial Assessed Amount:	18000
Liability \$ Amount:	18000
Project \$ Amount:	0
Liability \$ Paid:	18000
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	18000

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Region: 4
Facility Id: 236009
Agency Name: ConocoPhillips Company Long Beach
Place Type: Manufacturing
Place Subtype: Petroleum Refinery
Facility Type: Industrial
Agency Type: Privately-Owned Business
Of Agencies: 1
Place Latitude: Not reported
Place Longitude: Not reported
SIC Code 1: 2911
SIC Desc 1: Petroleum Refining
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
Of Places: 1
Source Of Facility: Reg Meas
Design Flow: 11.23
Threat To Water Quality: 2
Complexity: A
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Stormwater runoff
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDESWW
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192131026
Reg Measure Id: 131111
Reg Measure Type: NPDES Permits
Region: 4
Order #: 01-074
Npdes# CA#: CA0063185
Major-Minor: Major
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: 10000
Status: Historical
Status Date: 11/08/2006
Effective Date: 05/24/2001
Expiration/Review Date: 04/10/2006
Termination Date: 11/08/2006
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	228581
Region:	4
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	05/26/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	05/26/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4B192131026
Description:	The discharger phoned Board staff to report the effluent violation.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability \$ Amount:	0
Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	236009
Agency Name:	Phillips 66 Company Carson
Place Type:	Manufacturing
Place Subtype:	Petroleum Refinery
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2911
SIC Desc 1:	Petroleum Refining
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	11
Threat To Water Quality:	2

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Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Complexity: A
Pretreatment: X - Facility is not a POTW
Facility Waste Type: Cooling water: Noncontact
Facility Waste Type 2: Stormwater runoff
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: NPDINDLRG
Program Category1: NPDESWW
Program Category2: Not reported
Of Programs: 1
WDID: 4B192131026
Reg Measure Id: 381036
Reg Measure Type: NPDES Permits
Region: 4
Order #: R4-2012-0021
Npdes# CA#: CA0063185
Major-Minor: Major
Npdes Type: OTH
Reclamation: N - No
Dredge Fill Fee: Not reported
301H: N
Application Fee Amt Received: 10000
Status: Historical
Status Date: 08/01/2017
Effective Date: 03/02/2012
Expiration/Review Date: 01/10/2017
Termination Date: 07/31/2017
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 392141
Region: 4
Order / Resolution Number: Not reported
Enforcement Action Type: Notice of Violation
Effective Date: 07/15/2013
Adoption/Issuance Date: 07/15/2013
Achieve Date: Not reported
Termination Date: 07/15/2013
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: NOV 07/15/2013 for Phillips 66 Company
Description: Q1 2013 self-monitoring report was due on 5/1/2013 and to date has not been received.
Program: NPDINDLRG
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Project \$ Amount:	0
Liability \$ Paid:	0
Project \$ Completed:	0
Total \$ Paid/Completed Amount:	0
Region:	4
Facility Id:	236009
Agency Name:	Phillips 66 Company Carson
Place Type:	Manufacturing
Place Subtype:	Petroleum Refinery
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	2911
SIC Desc 1:	Petroleum Refining
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	11
Threat To Water Quality:	2
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Cooling water: Noncontact
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	Not reported
# Of Programs:	1
WDID:	4B192131026
Reg Measure Id:	381036
Reg Measure Type:	NPDES Permits
Region:	4
Order #:	R4-2012-0021
Npdes# CA#:	CA0063185
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	10000
Status:	Historical
Status Date:	08/01/2017
Effective Date:	03/02/2012
Expiration/Review Date:	01/10/2017

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Termination Date: 07/31/2017
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
WDR Review - Pending: Not reported
WDR Review - Planned: Not reported
Status Enrollee: N
Individual/General: I
Fee Code: 66 - NPDES Based on Flow
Direction/Voice: Passive
Enforcement Id(EID): 385167
Region: 4
Order / Resolution Number: Not reported
Enforcement Action Type: Oral Communication
Effective Date: 05/17/2012
Adoption/Issuance Date: 05/17/2012
Achieve Date: Not reported
Termination Date: 05/17/2012
ACL Issuance Date: Not reported
EPL Issuance Date: Not reported
Status: Historical
Title: Oral Com 05/17/2012 for ConocoPhillips Company
Description: Sent email to Alphonso Graves (Data Submitter) informing him that the rainfall data wasn't uploaded into CIWQS for 1st Quarter 2012 and asked that he included it with the 2nd Quarter 2012 submittal.
Program: NPDINDLRG
Latest Milestone Completion Date: Not reported
Of Programs1: 1
Total Assessment Amount: 0
Initial Assessed Amount: 0
Liability \$ Amount: 0
Project \$ Amount: 0
Liability \$ Paid: 0
Project \$ Completed: 0
Total \$ Paid/Completed Amount: 0

LOS ANGELES CO. HMS:

Region: LA
Permit Category: I
Facility Id: 000313-056794
Facility Type: 02
Facility Status: Permit
Area: 22
Permit Number: 000021079
Permit Status: Permit

Region: LA
Permit Category: I
Facility Id: 000313-056794
Facility Type: 02
Facility Status: Permit
Area: 22
Permit Number: 000763983
Permit Status: Permit

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Region: LA
Permit Category: Not reported
Facility Id: 015393-056795
Facility Type: Not reported
Facility Status: OPEN
Area: 22
Permit Number: Not reported
Permit Status: Not reported

Region: LA
Permit Category: Not reported
Facility Id: 015393-057986
Facility Type: Not reported
Facility Status: OPEN
Area: 22
Permit Number: Not reported
Permit Status: Not reported

NPDES:

Facility Status: Historical
NPDES Number: CA0063185
Region: 4
Agency Number: 534488
Regulatory Measure ID: 381036
Place ID: 236009
Order Number: R4-2012-0021
WDID: 4B192131026
Regulatory Measure Type: NPDES Permits
Program Type: NPDINDLRG
Adoption Date Of Regulatory Measure: 02/02/2012
Effective Date Of Regulatory Measure: 03/02/2012
Termination Date Of Regulatory Measure: 07/31/2017
Expiration Date Of Regulatory Measure: 01/10/2017
Discharge Address: 1520 East Sepulveda Boulevard
Discharge Name: Phillips 66 Company Carson
Discharge City: Carson
Discharge State: CA
Discharge Zip: 90745
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CA0063185
Status: Historical
Agency Number: 534488
Region: 4
Regulatory Measure ID: 381036
Order Number: R4-2012-0021
Regulatory Measure Type: NPDES Permits
Place ID: 236009
WDID: 4B192131026
Program Type: NPDINDLRG

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Adoption Date Of Regulatory Measure: 02/02/2012
Effective Date Of Regulatory Measure: 03/02/2012
Expiration Date Of Regulatory Measure: 01/10/2017
Termination Date Of Regulatory Measure: 07/31/2017
Discharge Name: Phillips 66 Company Carson
Discharge Address: 1520 East Sepulveda Boulevard
Discharge City: Carson
Discharge State: CA
Discharge Zip: 90745
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported
Constype Below Ground Ind: Not reported
Constype Cable Line Ind: Not reported
Constype Comm Line Ind: Not reported
Constype Commercial 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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:	CA0063185
Status:	Active
Agency Number:	534488
Region:	4
Regulatory Measure ID:	411309
Order Number:	R4-2017-0120
Regulatory Measure Type:	NPDES Permits
Place ID:	236009
WDID:	4B192131026
Program Type:	NPDINDLRG
Adoption Date Of Regulatory Measure:	06/01/2017
Effective Date Of Regulatory Measure:	08/01/2017
Expiration Date Of Regulatory Measure:	07/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Phillips 66 Company Carson
Discharge Address:	1520 East Sepulveda Boulevard
Discharge City:	Carson
Discharge State:	CA
Discharge Zip:	90745
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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 Commercial 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

Facility Status: Active
NPDES Number: CA0063185
Region: 4
Agency Number: 534488
Regulatory Measure ID: 411309
Place ID: 236009
Order Number: R4-2017-0120
WDID: 4B192131026
Regulatory Measure Type: NPDES Permits
Program Type: NPDINDLRG
Adoption Date Of Regulatory Measure: 06/01/2017
Effective Date Of Regulatory Measure: 08/01/2017
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: 07/31/2022
Discharge Address: 1520 East Sepulveda Boulevard
Discharge Name: Phillips 66 Company Carson
Discharge City: Carson
Discharge State: CA
Discharge Zip: 90745
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: CA0063185

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

Status:	Historical
Agency Number:	534488
Region:	4
Regulatory Measure ID:	381036
Order Number:	R4-2012-0021
Regulatory Measure Type:	NPDES Permits
Place ID:	236009
WDID:	4B192131026
Program Type:	NPDINDLRG
Adoption Date Of Regulatory Measure:	02/02/2012
Effective Date Of Regulatory Measure:	03/02/2012
Expiration Date Of Regulatory Measure:	01/10/2017
Termination Date Of Regulatory Measure:	07/31/2017
Discharge Name:	Phillips 66 Company Carson
Discharge Address:	1520 East Sepulveda Boulevard
Discharge City:	Carson
Discharge State:	CA
Discharge Zip:	90745
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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:	CA0063185
Status:	Active
Agency Number:	534488
Region:	4
Regulatory Measure ID:	411309
Order Number:	R4-2017-0120
Regulatory Measure Type:	NPDES Permits
Place ID:	236009
WDID:	4B192131026
Program Type:	NPDINDLRG
Adoption Date Of Regulatory Measure:	06/01/2017
Effective Date Of Regulatory Measure:	08/01/2017
Expiration Date Of Regulatory Measure:	07/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Phillips 66 Company Carson
Discharge Address:	1520 East Sepulveda Boulevard
Discharge City:	Carson
Discharge State:	CA
Discharge Zip:	90745
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

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 Commercial 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

CIWQS:

Agency: ConocoPhillips Company Long Beach
Agency Address: 3900 Kilroy Airport Way 210, Long Beach, CA 90806
Place/Project Type: Petroleum Refinery
SIC/NAICS: 2911
Region: 4
Program: NPDESWW, NPDINDLRG
Regulatory Measure Status: Historical
Regulatory Measure Type: NPDES Permit
Order Number: R4-2006-0082
WDID: 4B192131026
NPDES Number: CA0063185
Adoption Date: 11/09/2006
Effective Date: 12/09/2006
Termination Date: 03/01/2012
Expiration/Review Date: 10/09/2011
Design Flow: 11
Major/Minor: Major
Complexity: A

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOS ANGELES REFINERY, CARSON PLANT (Continued)

S103963019

TTWQ: 2
Enforcement Actions within 5 years: 1
Violations within 5 years: 0
Latitude: Not reported
Longitude: Not reported

Agency: Phillips 66 Company Carson
Agency Address: 1520 East Sepulveda Boulevard, Carson, CA 90745
Place/Project Type: Petroleum Refinery
SIC/NAICS: 2911
Region: 4
Program: NPDINDLRG
Regulatory Measure Status: Active
Regulatory Measure Type: NPDES Permit
Order Number: R4-2017-0120
WDID: 4B192131026
NPDES Number: CA0063185
Adoption Date: 06/01/2017
Effective Date: 08/01/2017
Termination Date: Not reported
Expiration/Review Date: 07/31/2022
Design Flow: 11
Major/Minor: Major
Complexity: A
TTWQ: 2
Enforcement Actions within 5 years: 1
Violations within 5 years: 0
Latitude: Not reported
Longitude: Not reported

O89
WSW
1/2-1
0.840 mi.
4437 ft.

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT
1520 E SEPULVEDA BLVD
CARSON, CA 90745
Site 3 of 3 in cluster O

DEED **S113094054**
HAZNET **N/A**
ICE
HWP

Relative:
Higher
Actual:
39 ft.

DEED:
Envirostor ID: CAD980881676
Area: Not reported
Sub Area: Not reported
Site Type: POST CLOSURE PERMIT
Status: POST CLOSURE PERMIT
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/23/2013
File Name: Envirostor Land Use Restrictions

Envirostor ID: CAD980881676
Area: Not reported
Sub Area: Not reported
Site Type: POST CLOSURE PERMIT
Status: POST CLOSURE PERMIT
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/23/2013
File Name: Envirostor Land Use Restrictions

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

HAZNET:

envid: S113094054
Year: 1996
GEPAID: CAL000177996
Contact: SGS INDUSTRIAL INC
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1655 E 28TH ST
Mailing City,St,Zip: SIGNAL HILL, CA 908060000
Gen County: Not reported
TSD EPA ID: CAD108040858
TSD County: Not reported
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Tons: .1584
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

ICE:

Envirostor ID: 3001174
EPA ID: CAD980881676
Site Type: INSPECTION
Facility Status: No Action

Enforcement:

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 09/28/2005

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 04/30/2008

Inspection:

Action Type: Operation and Maintenance - Treatment, Storage and Disposal
Action Date: 04/03/2002
Violation Class: Class 1, Minor
RTC Date: 12/22/2004

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 01/19/2000
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 01/23/2002
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 08/19/2009
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 07/28/2009
Violation Class: Minor

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

RTC Date: 08/03/2009

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 05/14/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/14/2000
Violation Class: Minor
RTC Date: 11/15/2000

Action Type: Financial Records Review - Treatment, Storage and Disposal
Action Date: 06/30/2006
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/19/2007
Violation Class: Class 1
RTC Date: 01/30/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 12/17/2003
Violation Class: Minor
RTC Date: 12/18/2003

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 03/21/2006
Violation Class: Minor
RTC Date: 03/22/2006

Action Type: Financial Records Review - Post-Closure
Action Date: 02/07/2008
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/30/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 06/20/2012
Violation Class: Minor
RTC Date: 09/14/2012

Action Type: Financial Records Review - Post-Closure
Action Date: 08/14/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 05/05/2015
Violation Class: Class 2, Minor
RTC Date: 05/28/2015

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Action Type: Financial Records Review - Post-Closure
Action Date: 07/09/2015
Violation Class: No Violations
RTC Date: Not reported

Action Type: Focused Compliance Inspection - Treatment, Storage and Disposal
Action Date: 10/08/2015
Violation Class: Class 2, Minor
RTC Date: 10/27/2015

Action Type: Financial Records Review - Post-Closure
Action Date: 06/06/2018
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 05/30/2018
Violation Class: No Violations
RTC Date: Not reported

HWP:

EPA Id: CAD980881676
Cleanup Status: POST CLOSURE PERMIT
Latitude: 33.80400
Longitude: -118.2436
Facility Type: Post-Closure Permitted
Facility Size: Large Postclosure
Team: MUZHDA FEROUZ
Supervisor: GARY HAMMOND
Site Code: 400277, 400277
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD980881676
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1 (GPRA Unit)
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 12/20/1993

EPA Id: CAD980881676
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1 (GPRA Unit)
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 06/10/1993

EPA Id: CAD980881676
Facility Type: Post-Closure Permitted
Unit Names: SURFIMP1 (GPRA Unit)
Event Description: PC Renewal PC - No Changes - DTSC MEETING WITH APPLICANT
Actual Date: 12/01/2016

EPA Id: CAD980881676
Facility Type: Post-Closure Permitted

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	05/25/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EXPIRES)
Actual Date:	07/26/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION (EFFECTIVE)
Actual Date:	04/08/2013
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	03/21/1992
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date:	10/16/1991
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PART A & PART B RECEIVED
Actual Date:	03/23/1993
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART A RECEIVED
Actual Date:	03/13/1992
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - APPLICATION PART A RECEIVED
Actual Date:	04/27/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - PUBLIC NOTICE - POST-CLOSURE PERMIT RECEIVED
Actual Date:	10/12/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	12/20/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*PC Mod Class 1* - Prior Approval Required - FINAL POST-CLOSURE PERMIT MODIFICATION
Actual Date:	03/05/2013
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - TECHNICAL REVIEW BEGIN
Actual Date:	05/27/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	06/10/1993
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	01/27/1994
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*Mod Class 1* - Prior Approval Required - FINAL PERMIT MODIFICATION
Actual Date:	03/05/2013
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (PUBLIC HEARING)
Actual Date:	07/28/1993
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - CALL-IN LETTER ISSUED
Actual Date:	12/19/1990
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date:	01/27/2004
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - CALL-IN LETTER ISSUED
Actual Date:	12/01/2015
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Event Description:	New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date:	12/20/1993
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	05/16/1991
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - ADMINISTRATIVE REVIEW APPROVED
Actual Date:	05/25/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	02/05/2018
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - CALL-IN LETTER ISSUED
Actual Date:	01/08/1992
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - PUBLIC COMMENT (END)
Actual Date:	07/25/1993
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	11/13/1992
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*PC Mod Class 1* - Prior Approval Required - FINAL POST-CLOSURE PERMIT MODIFICATION (EXPIRE
Actual Date:	11/26/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	12/21/1990
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	06/14/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - 3RD NOTICE OF DEFICIENCY ISSUED
Actual Date:	09/12/1991
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - RESPONSE TO 2ND NOD RECEIVED
Actual Date:	07/21/1991
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Operating Permit - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	07/13/1991
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	Not reported
Event Description:	*PC Mod Class 1* - Prior Approval Required - FINAL POST-CLOSURE PERMIT MODIFICATION (EFFECTIVE)
Actual Date:	03/05/2013
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - APPLICATION PART B RECEIVED
Actual Date:	04/27/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	PC Renewal PC - No Changes - RESPONSE TO 1ST NOD RECEIVED
Actual Date:	08/15/2018
Closure:	
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - APPLICATION PART B RECEIVED
Actual Date:	07/26/1999
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - APPLICATION PART A RECEIVED
Actual Date:	12/07/1999
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - INITIAL ADMINISTRATIVE REVIEW COMPLETED
Actual Date:	09/27/1999
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN RECEIVED
Actual Date:	04/28/1995
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE NOTICE RECEIVED
Actual Date:	12/18/1995
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - PUBLIC COMMENT (BEGIN)
Actual Date:	08/23/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT
Actual Date:	10/25/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date:	11/27/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - DRAFT POST-CLOSURE PERMIT
Actual Date:	08/23/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date:	09/11/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date:	04/26/1999
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date:	11/26/2017
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date:	03/14/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - CEQA DETERMINATION
Actual Date:	10/25/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - PUBLIC COMMENT (END)
Actual Date:	10/07/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	Closure Final - CLOSURE PLAN APPROVED
Actual Date:	04/11/1996
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	Closure Final - PUBLIC COMMENT (BEGIN)
Actual Date:	01/08/1996
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - CALL-IN LETTER ISSUED
Actual Date:	04/26/1999
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	01/11/2007
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Unit Names:	SURFIMP1 (GPRA Unit)
Event Description:	New Post-Closure Permit - FINAL PART A & PART B RECEIVED
Actual Date:	08/15/2007
Alias:	
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Alias Type:	FRS
Alias:	110000476128
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Alias Type:	Project Code (Site Code)
Alias:	400277
EPA Id:	CAD980881676
Facility Type:	Post-Closure Permitted
Alias Type:	Project Code (Site Code)
Alias:	400277

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

EPA Id: CAD980881676
Facility Type: Post-Closure Permitted
Alias Type: Alternate Name
Alias: PHILLIPS 66 Company LARC

Maintenance:

EPA Id: CAD980881676
Title: Identification/verification of comp fuels Facilities - Three Oil Bearing Storage Tanks
Document Type: File Review Request
Received Date: 07/30/2015

EPA Id: CAD980881676
Title: Land Use Covenant Annual Inspection and Compliance Report for the Closed Process Water Pond
Document Type: Deed Restriction / LUC Monitoring Report
Received Date: 03/01/2016

EPA Id: CAD980881676
Title: Semiannual Groundwater Monitoring Report
Document Type: Monitoring Workplan - Groundwater
Received Date: 05/08/2017

EPA Id: CAD980881676
Title: Quarterly Ground Water Monitoring Report 1st Q 2018
Document Type: Monitoring Report - Groundwater
Received Date: 04/26/2018

EPA Id: CAD980881676
Title: Land Use Covenant Annual Inspection and Compliance Report for the Closed Process Water Pond
Document Type: Deed Restriction / LUC Monitoring Report
Received Date: 03/08/2018

EPA Id: CAD980881676
Title: Semiannual Groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 02/20/2018

EPA Id: CAD980881676
Title: Land Use Covenant
Document Type: Deed Restriction / LUC Issued
Received Date: 08/23/2013

EPA Id: CAD980881676
Title: Review Facility revisions on the draft LUC
Document Type: Deed Restriction / LUC Issued
Received Date: 08/23/2013

EPA Id: CAD980881676
Title: Groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 05/08/2017

EPA Id: CAD980881676
Title: Groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 03/22/2011

EPA Id: CAD980881676

Map ID
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Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	09/06/2011
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	09/30/2011
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	02/28/2012
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	05/29/2012
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	09/03/2013
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	05/08/2017
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	01/13/2014
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	11/06/2014
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	09/21/2015
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	09/21/2015
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	03/15/2016
EPA Id:	CAD980881676
Title:	Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater

Map ID
Direction
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

PHILLIPS 66 CO LOS ANGELES REFINERY CARSON PLANT (Continued)

S113094054

Received Date: 04/20/2018

P90
NNW
1/2-1
0.841 mi.
4439 ft.
Relative:
Higher
Actual:
24 ft.

STAUFFER MANAGEMENT CO
2201_E_223RD ST OFF SITE
CARSON, CA 90810
Site 1 of 2 in cluster P

RCRA-SQG 1001217343
RESPONSE CAR000032516
ENVIROSTOR
LUST
CPS-SLIC
DEED
Cortese
HAZNET
HIST CORTESE

RCRA-SQG:

Date form received by agency: 10/10/1997
Facility name: STAUFFER MANAGEMENT CO
Facility address: 2201_E_223RD ST OFF SITE
CARSON, CA 90810
EPA ID: CAR000032516
Mailing address: P O BOX 15438
WILMINGTON, DE 19850
Contact: CAROL DICKERSON
Contact address: P O BOX 15438
WILMINGTON, DE 19850
Contact country: US
Contact telephone: 302-886-5123
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: ATKEMIX THIRTY SEVEN INC
Owner/operator address: P O BOX 15438
WILMINGTON, DE 19850
Owner/operator country: Not reported
Owner/operator telephone: 302-886-5123
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

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used 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: 10/10/1997
Site name: STAUFFER MANAGEMENT CO
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

Date form received by agency: 10/10/1997
Site name: STAUFFER MANAGEMENT CO
Classification: Large Quantity Generator

Violation Status: No violations found

RESPONSE:

Facility ID: 19280083
Site Type: State Response
Site Type Detail: State Response or NPL
Acres: 14.48
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency Description: * DTSC
Project Manager: Isaac Hirbawi
Supervisor: Maryam Tasnif-Abbasi
Division Branch: Cleanup Cypress
Site Code: 400264
Site Mgmt. Req.: NONE SPECIFIED
Assembly: 64
Senate: 35
Special Program Status: * Site Char & Assess Grant (CERCLA 104)
Status: Active
Status Date: 04/25/1996
Restricted Use: YES
Funding: Responsible Party
Latitude: 33.82323
Longitude: -118.2356
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC : Vinyl chloride 1,2-Dichloroethane (EDC)
Confirmed COC: Vinyl chloride 1,2-Dichloroethane (EDC)
Potential Description: OTH, SOIL
Alias Name: AMERICAN CHEMICAL CORP (1959-1975)
Alias Type: Alternate Name
Alias Name: ASTRA ZENECA
Alias Type: Alternate Name

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Alias Name: ATKEMIX 37 INC.
Alias Type: Alternate Name
Alias Name: STAUFFER MANAGEMENT COMPANY (1987-CURREN
Alias Type: Alternate Name
Alias Name: CAD076941103
Alias Type: EPA Identification Number
Alias Name: 110000749922
Alias Type: EPA (FRS #)
Alias Name: CAD076941103
Alias Type: HWTS Identification Code
Alias Name: 400264
Alias Type: Project Code (Site Code)
Alias Name: 19280083
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/01/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/11/2018
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/25/2011
Comments: Approval letter sent to Stauffer on April 25, 2011

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 02/18/1999
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 05/18/2011
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 03/05/2008
Comments: DTSC approval letter was sent to Stauffer on 3/5/08

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/31/1997
Comments: Soil remedial Design and Implementation Plans were approved by DTSC.

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/25/1997
Comments: DTSC approved soil RAP and Negative Declaration. The selected alternative addresses the soil operable unit as an interim measure. The project includes vapor and liquid extraction with vapor and liquid treatment for soils. The interim cleanup number for 1,2, DCA is 20 ppm.

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/30/1997
Comments: DTSC reviewed and approved the revised Feasibility Study report. This completes the approval of the RI/FS for the soil operable unit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/08/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/22/2015
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/04/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/01/2011
Comments: Annual annual cost estimate for 2012 completed on 11/1/2011

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/15/2013

Map ID
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/31/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/16/1981
Comments: FACILITY IDENTIFIED LA COUNTY ENGINEER'S FILE #04706

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/28/2007
Comments: Comments on the Pneumatic Fracturing Pilot Project Report were submitted via email on 11/28/2008

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/05/2008
Comments: This report was not a milestone document. It was prepared at the request of DTSC so that all the data on past groundwater investigation activities could be found in one report. No formal approval was necessary

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/30/2008
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 02/15/2008
Comments: Approved.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/01/2008
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/13/2009
Comments: Approval Letter for January 30, 2009 Groundwater Feasibility Study Report transmitted to Stauffer Chemical Company on 4/13/2009

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/16/2008
Comments: Final October 2008 Groundwater Monitoring Report submitted to DTSC on November 11, 2009. DTSC GSU reviewed and had not substantive comments

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2009
Comments: October GW Monitoring Report submitted to DTSC on November 30, 2009

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2010
Comments: Stauffer submitted October 2009 quarterly Groundwater Monitoring Report on 10/24/2009

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 12/21/2005
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/13/2011
Comments: October 2010 Groundwater Monitoring Report is acceptable to DTSC, no comments were necessary

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/23/2011
Comments: Comments on Second Five Year Report were sent to Stauffer on 5/23/2011
Not reported

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/12/2011
Comments: Monthly Progress Report Submitted on 1/12/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2011
Comments: Monthly Progress Report submitted on 2/14/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2011
Comments: February Progress Report was submitted on 3/14/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/12/2011
Comments: July 2011 Progress Report Submitted on 08/12/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2011
Comments: Monthly Progress Report Submitted on 7/29/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2011
Comments:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2011
Comments: June Progress Report submitted on 7/19/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2011
Comments: June 2011 Monthly Progress Report submitted on July 19, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/14/2011
Comments: September 2100 Monthly Progress Report was submitted on October 14, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 09/14/2011
Comments: August 2011 Monthly Progress Report was submitted on September 14, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/15/2011
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: April 2011 Quarterly Groundwater Monitoring Report was submitted to DTSC on July 13, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/17/2012
Comments: Final January 2012 Monthly Progress Report submitted to DTSC on 2/15/2012. No DTSC comment or approval necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/23/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/31/2012
Comments: April 2012 Monthly Progress Report was submitted to DTSC on 5/31/2012

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/27/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/09/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 04/09/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/26/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/25/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/25/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 08/15/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/30/2013
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/01/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/22/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/17/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/04/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/27/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 07/07/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 10/22/2014
Comments: Tizita Bekele of DTSC's Financial Cost Estimate Validation Group reviewed the cost estimate and approved it on July 9, 2014

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 12/17/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/12/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/15/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/11/2015
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/01/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/17/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/30/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2017
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 09/28/2016
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/28/2016
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/25/2015
Comments: Tayseer Mahmoud provided field oversight on February 24, 2016. Also, on February 25, 2016 Jose Marcos observed a portion of the quarterly groundwater sampling event. Jose met the sampler Edwin Moncoya and observed him performing parameter stabilization monitoring and sample collection from the flow loops inside the EISB building.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/25/2016
Comments: Tayseer Mahmoud provided field oversight on February 24, 2016. Also, on February 25, 2016, Jose Marcos observed a portion of the quarterly groundwater sampling event. Jose met the sampler, Edwin Moncoya, and observed him performing parameter stabilization monitoring and sample collection from the flow loops inside the EISB building.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/01/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/27/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/20/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed
Completed Date: 10/20/2011
Comments: Selected Remedy for the Groundwater Operable Unit is construction and operation of an Enhanced In-situ Bioremediation System (EISB). Full scale operation of the EISB system was initiated on October 20, 2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/20/2018
Comments: Not reported

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/27/1994
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/25/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/07/2016
Comments: FY 2016/2017 ACE completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2015
Comments: Stauffer submits the Waste Discharge Report to the RWQCB and no need to send a separate approval letter.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/10/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 02/22/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/24/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Document Type: Monitoring Report
Completed Date: 11/20/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/30/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/24/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/30/2017
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/11/2017
Comments: Action completed. DTSC submitted comments on July 11, 2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/22/2017
Comments: Action completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/21/2018
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/16/2014
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: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 07/28/2018
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 05/09/2018
Schedule Revised Date: Not reported

ENVIROSTOR:

Facility ID: 19280083
Status: Active
Status Date: 04/25/1996
Site Code: 400264
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 14.48
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Isaac Hirbawi
Supervisor: Maryam Tasnif-Abbasi
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: * Site Char & Assess Grant (CERCLA 104)
Restricted Use: YES
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.82323
Longitude: -118.2356
APN: NONE SPECIFIED
Past Use: MANUFACTURING - CHEMICALS
Potential COC: Vinyl chloride 1,2-Dichloroethane (EDC)
Confirmed COC: Vinyl chloride 1,2-Dichloroethane (EDC)
Potential Description: OTH, SOIL
Alias Name: AMERICAN CHEMICAL CORP (1959-1975)
Alias Type: Alternate Name
Alias Name: ASTRA ZENECA
Alias Type: Alternate Name
Alias Name: ATKEMIX 37 INC.
Alias Type: Alternate Name
Alias Name: STAUFFER MANAGEMENT COMPANY (1987-CURREN
Alias Type: Alternate Name
Alias Name: CAD076941103

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Alias Type: EPA Identification Number
Alias Name: 110000749922
Alias Type: EPA (FRS #)
Alias Name: CAD076941103
Alias Type: HWTS Identification Code
Alias Name: 400264
Alias Type: Project Code (Site Code)
Alias Name: 19280083
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 09/01/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/11/2018
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 04/25/2011
Comments: Approval letter sent to Stauffer on April 25, 2011

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 02/18/1999
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 05/18/2011
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 03/05/2008
Comments: DTSC approval letter was sent to Stauffer on 3/5/08

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/31/1997
Comments: Soil remedial Design and Implementation Plans were approved by DTSC.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/25/1997
Comments: DTSC approved soil RAP and Negative Declaration. The selected alternative addresses the soil operable unit as an interim measure. The project includes vapor and liquid extraction with vapor and liquid treatment for soils. The interim cleanup number for 1,2, DCA is 20 ppm.

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 01/30/1997
Comments: DTSC reviewed and approved the revised Feasibility Study report. This completes the approval of the RI/FS for the soil operable unit.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/08/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operation & Maintenance Order/Agreement
Completed Date: 06/22/2015
Comments: .

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 09/04/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/01/2011
Comments: Annual annual cost estimate for 2012 completed on 11/1/2011

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/15/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/31/2011

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 04/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/16/1981
Comments: FACILITY IDENTIFIED LA COUNTY ENGINEER'S FILE #04706

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Pilot/Treatability Study Report
Completed Date: 11/28/2007
Comments: Comments on the Pneumatic Fracturing Pilot Project Report were submitted via email on 11/28/2008

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 03/05/2008
Comments: This report was not a milestone document. It was prepared at the request of DTSC so that all the data on past groundwater investigation activities could be found in one report. No formal approval was necessary

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 01/30/2008
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 02/15/2008
Comments: Approved.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 06/01/2008
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 04/13/2009
Comments: Approval Letter for January 30, 2009 Groundwater Feasibility Study Report transmitted to Stauffer Chemical Company on 4/13/2009

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/16/2008
Comments: Final October 2008 Groundwater Monitoring Report submitted to DTSC on November 11, 2009. DTSC GSU reviewed and had not substantive comments

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/30/2009
Comments: October GW Monitoring Report submitted to DTSC on November 30, 2009

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2010
Comments: Stauffer submitted October 2009 quarterly Groundwater Monitoring Report on 10/24/2009

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Deed/LUR Enforcement & Implementation Plan
Completed Date: 12/21/2005
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/13/2011
Comments: October 2010 Groundwater Monitoring Report is acceptable to DTSC, no comments were necessary

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 05/23/2011
Comments: Comments on Second Five Year Report were sent to Stauffer on 5/23/2011
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 01/12/2011
Comments: Monthly Progress Report Submitted on 1/12/2011

Completed Area Name: PROJECT WIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2011
Comments: Monthly Progress Report submitted on 2/14/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/14/2011
Comments: February Progress Report was submitted on 3/14/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/12/2011
Comments: July 2011 Progress Report Submitted on 08/12/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2011
Comments: Monthly Progress Report Submitted on 7/29/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/29/2011
Comments:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2011
Comments: June Progress Report submitted on 7/19/2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/19/2011
Comments: June 2011 Monthly Progress Report submitted on July 19, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/14/2011
Comments: September 2100 Monthly Progress Report was submitted on October 14, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/14/2011
Comments: August 2011 Monthly Progress Report was submitted on September 14, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Document Type: Monitoring Report
Completed Date: 11/15/2011
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/13/2011
Comments: April 2011 Quarterly Groundwater Monitoring Report was submitted to DTSC on July 13, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/17/2012
Comments: Final January 2012 Monthly Progress Report submitted to DTSC on 2/15/2012. No DTSC comment or approval necessary

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/23/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 05/31/2012
Comments: April 2012 Monthly Progress Report was submitted to DTSC on 5/31/2012

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/27/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/27/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 04/09/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/18/2012
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Plan
Completed Date: 04/09/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/26/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/25/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 07/25/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 08/15/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/30/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/01/2013
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/22/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/11/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/12/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 03/17/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/04/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/27/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/07/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/30/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/04/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 10/22/2014
Comments: Tizita Bekele of DTSC's Financial Cost Estimate Validation Group reviewed the cost estimate and approved it on July 9, 2014

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 12/17/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/12/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/15/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/11/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/01/2015
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/17/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/30/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/15/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 02/14/2017
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 07/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/04/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 09/28/2016
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Date: 09/28/2016
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/25/2015
Comments: Tayseer Mahmoud provided field oversight on February 24, 2016. Also, on February 25, 2016 Jose Marcos observed a portion of the quarterly groundwater sampling event. Jose met the sampler Edwin Moncoya and observed him performing parameter stabilization monitoring and sample collection from the flow loops inside the EISB building.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 02/25/2016
Comments: Tayseer Mahmoud provided field oversight on February 24, 2016. Also, on February 25, 2016, Jose Marcos observed a portion of the quarterly groundwater sampling event. Jose met the sampler, Edwin Moncoya, and observed him performing parameter stabilization monitoring and sample collection from the flow loops inside the EISB building.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/20/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/07/2015

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 04/01/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/15/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2014
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 07/27/2015
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 10/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/20/2013
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed
Completed Date: 10/20/2011
Comments: Selected Remedy for the Groundwater Operable Unit is construction and operation of an Enhanced In-situ Bioremediation System (EISB). Full scale operation of the EISB system was initiated on October 20, 2011

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Site Inspection/Visit
Completed Date: 03/20/2018
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Area Name: Soil Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Completed Date: 06/25/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/27/1994
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 06/25/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/07/2016
Comments: FY 2016/2017 ACE completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 10/15/2015
Comments: Stauffer submits the Waste Discharge Report to the RWQCB and no need to send a separate approval letter.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 02/10/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Design
Completed Date: 02/22/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/24/2016
Comments: Not reported

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/20/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Completed Document Type: Technical Report
Completed Date: 08/30/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/24/2017
Comments: Action completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/30/2017
Comments: Review completed.

Completed Area Name: Groundwater Operable Unit
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/11/2017
Comments: Action completed. DTSC submitted comments on July 11, 2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 04/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/22/2017
Comments: Action completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/27/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 06/21/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/16/2014
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: 5 Year Review Reports
Schedule Due Date: 07/28/2018
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 05/09/2018
Schedule Revised Date: Not reported

LUST REG 4:

Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-04706
Status: Leak being confirmed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603704651
W Global ID: Not reported
Staff: TOX
Local Agency: 19000
Cross Street: ALAMEDA ST
Enforcement Type: Not reported
Date Leak Discovered: 1/1/1993
Date Leak First Reported: 1/1/1993
Date Leak Record Entered: 11/8/1996
Date Confirmation Began: 1/1/1993
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 10/30/1996
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1217.382210332263930479828887
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: BLANK RP
RP Address: Not reported
Program: LOCNL
Lat/Long: 33.8241903 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

CPS-SLIC:

Region: STATE
Facility Status: Open - Site Assessment
Status Date: 01/01/1993
Global Id: T0603704651
Lead Agency: LOS ANGELES COUNTY
Lead Agency Case Number: Not reported
Latitude: 33.8241903
Longitude: -118.2372402
Case Type: Cleanup Program Site
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-04706
File Location: Not reported
Potential Media Affected: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Aviation
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

SLIC REG 4:

Region: 4
Facility Status: Site Assessment
SLIC: 0496B6
Substance: Not reported
Staff: SSH

DEED:

Envirostor ID: 19280083
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: ACTIVE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 09/04/2013
File Name: Envirostor Land Use Restrictions

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT CO (Continued)

1001217343

CORTESE:

Region: CORTESE
Envirostor Id: 19280083
Site/Facility Type: STATE RESPONSE
Cleanup Status: ACTIVE - LAND USE RESTRICTIONS
Status Date: 04/25/1996
Site Code: 400264
Latitude: 33.823234
Longitude: -118.23562
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: envirostor
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Haz Waste & Substances Sites

HAZNET:

envid: 1001217343
Year: 1997
GEPaid: CAR000032516
Contact: ATKEMIX THIRTY SEVEN INC
Telephone: 3028865123
Mailing Name: Not reported
Mailing Address: P O BOX 15437
Mailing City,St,Zip: WILMINGTON, DE 198505437
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Recycler
Tons: 2.0850
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: CALSI
Reg Id: 19280083

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-04706

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

Q91 **MANVILLE PLANT**
North **2420 223RD ST E**
1/2-1 **CARSON, CA 90810**
0.843 mi.
4450 ft. **Site 1 of 2 in cluster Q**

RESPONSE **S104406548**
ENVIROSTOR **N/A**
LUST
DEED
HIST CORTESE

Relative:
Higher
Actual:
27 ft.

RESPONSE:
 Facility ID: 19320001
 Site Type: State Response
 Site Type Detail: State Response or NPL
 Acres: 16
 National Priorities List: NO
 Cleanup Oversight Agencies: SMBRP
 Lead Agency Description: DTSC - Site Cleanup Program
 Project Manager: Safouh Sayed
 Supervisor: Robert Senga
 Division Branch: Cleanup Cypress
 Site Code: 300089
 Site Mgmt. Req.: ASP, DAY, ELD, HOS, LUC, FEN, EX, NUSE, SCH, FOOD, RES, ASP, DAY, ELD, HOS, LUC, FEN, EX, NUSE, SCH, FOOD, RES
 Assembly: 64
 Senate: 35
 Special Program Status: Not reported
 Status: Certified O&M - Land Use Restrictions Only
 Status Date: 07/12/1990
 Restricted Use: YES
 Funding: Responsible Party
 Latitude: 33.82424
 Longitude: -118.2341
 APN: NONE SPECIFIED
 Past Use: UNKNOWN
 Potential COC : Asbestos Containing Materials (ACM)
 Confirmed COC: NONE SPECIFIED
 Potential Description: SOIL
 Alias Name: 19320001
 Alias Type: Envirostor ID Number
 Alias Name: JOHNS-MANVILLE CORPORATION
 Alias Type: Alternate Name
 Alias Name: JOHNS-MANVILLE, CARSON
 Alias Type: Alternate Name
 Alias Name: CAD060386596
 Alias Type: EPA Identification Number
 Alias Name: 110002652594
 Alias Type: EPA (FRS #)
 Alias Name: 110033608610
 Alias Type: EPA (FRS #)
 Alias Name: P41023
 Alias Type: PCode
 Alias Name: 300089
 Alias Type: Project Code (Site Code)

Completed Info:
 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported
 Completed Document Type: Remedial Action Plan
 Completed Date: 07/31/1989
 Comments: Not reported

 Completed Area Name: PROJECT WIDE
 Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 05/31/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 12/04/2013
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/1990
Comments: Certification of Remedial Action Plan (asbestos/underground storage tanks) by DHS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/15/1981
Comments: Facility identified via LA County Engineers files.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 12/16/1991
Comments: Amended deed restriction recorded 12/03/91.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/12/1990
Comments: The Department and Manville Sales Corporation entered into a Consent Agreement on June 30, 1990 to restrict land use at Manville site. This deed was recorded in Los Angeles County Recorder on July 12, 1990.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
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

ENVIROSTOR:

Facility ID: 19320001
Status: Certified O&M - Land Use Restrictions Only

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

Status Date: 07/12/1990
Site Code: 300089
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 16
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Safouh Sayed
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: YES
Site Mgmt Req: ASP, DAY, ELD, HOS, LUC, FEN, EX, NUSE, SCH, FOOD, RES, ASP, DAY, ELD, HOS, LUC, FEN, EX, NUSE, SCH, FOOD, RES

Funding: Responsible Party
Latitude: 33.82424
Longitude: -118.2341
APN: NONE SPECIFIED
Past Use: UNKNOWN
Potential COC: Asbestos Containing Materials (ACM)
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: 19320001
Alias Type: Envirostor ID Number
Alias Name: JOHNS-MANVILLE CORPORATION
Alias Type: Alternate Name
Alias Name: JOHNS-MANVILLE, CARSON
Alias Type: Alternate Name
Alias Name: CAD060386596
Alias Type: EPA Identification Number
Alias Name: 110002652594
Alias Type: EPA (FRS #)
Alias Name: 110033608610
Alias Type: EPA (FRS #)
Alias Name: P41023
Alias Type: PCode
Alias Name: 300089
Alias Type: Project Code (Site Code)

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 07/31/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 05/31/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

Completed Date: 12/04/2013
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/29/1990
Comments: Certification of Remedial Action Plan (asbestos/underground storage tanks) by DHS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/15/1981
Comments: Facility identified via LA County Engineers files.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction - Amendment
Completed Date: 12/16/1991
Comments: Amended deed restriction recorded 12/03/91.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 07/12/1990
Comments: The Department and Manville Sales Corporation entered into a Consent Agreement on June 30, 1990 to restrict land use at Manville site. This deed was recorded in Los Angeles County Recorder on July 12, 1990.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/03/2014
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

LUST:

Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702687
Global Id: T0603702687
Latitude: 33.8244487
Longitude: -118.2309273
Status: Completed - Case Closed
Status Date: 07/18/1996
Case Worker: YR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

RB Case Number: I-00223
Local Agency: LOS ANGELES COUNTY
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:

Global Id: T0603702687
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603702687
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:

Global Id: T0603702687
Action Type: Other
Date: 06/29/1990
Action: Leak Stopped

Global Id: T0603702687
Action Type: Other
Date: 06/29/1990
Action: Leak Discovery

Global Id: T0603702687
Action Type: Other
Date: 07/25/1990
Action: Leak Reported

LUST:

Global Id: T0603702687
Status: Open - Case Begin Date
Status Date: 05/25/1990

Global Id: T0603702687
Status: Open - Site Assessment
Status Date: 05/25/1990

Global Id: T0603702687
Status: Open - Site Assessment
Status Date: 06/15/1990

Global Id: T0603702687

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

Status: Completed - Case Closed
Status Date: 07/18/1996

LUST REG 4:

Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-00223
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603702687
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: WILMINGTON AVE
Enforcement Type: Not reported
Date Leak Discovered: 6/29/1990
Date Leak First Reported: 7/25/1990
Date Leak Record Entered: 9/26/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 6/29/1990
Date Case Last Changed on Database: 12/23/1996
Date the Case was Closed: 7/18/1996
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: CLUMPUS, MARVIN
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1148.4783970301480426412314408
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 5/25/1990
Pollution Characterization Began: 6/15/1990
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: MANVILLE SALES CORPORATION
RP Address: P.O. BOX 5108 DENVER, COLORADO, 80217
Program: LUST
Lat/Long: 33.8242963 / -1
Local Agency Staff: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE PLANT (Continued)

S104406548

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

DEED:

Envirostor ID: 19320001
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 12/16/1991
File Name: Envirostor Land Use Restrictions

Envirostor ID: 19320001
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: STATE RESPONSE
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 07/12/1990
File Name: Envirostor Land Use Restrictions

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-00223

Q92
North
1/2-1
0.843 mi.
4450 ft.

MANVILLE CORPORATION
2420 EAST 223RD STREET
CARSON, CA 90810

HIST Cal-Sites **S100833315**
CA BOND EXP. PLAN **N/A**

Site 2 of 2 in cluster Q

Relative:
Higher
Actual:
27 ft.

Calsite:
Region: CYPRESS
Facility ID: 19320001
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: SB
Branch Name: SO CAL - CYPRESS
File Name: Not reported
State Senate District: 06291990
Status: CERTIFIED OPERATION AND MAINTENANCE, ALL PLANNED ACTIVITIES IMPLEMENTED, REMEDIATION CONTINUES
Status Name: CERTIFIED / OPERATION & MAINTENANCE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 32
SIC Name: MANU - STONE, CLAY & GLASS PRODUCTS
Access: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE CORPORATION (Continued)

S100833315

Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Unknown
Staff Member Responsible for Site: SSAYED
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 55
State Senate District Code: 28
Facility ID: 19320001
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 02151981
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: COM
Definition of Status: CERTIFIED / OPERATION & MAINTENANCE
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: 19320001
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: CAP
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 05311989
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported
Activity Status: COM
Definition of Status: CERTIFIED / OPERATION & MAINTENANCE
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE CORPORATION (Continued)

S100833315

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19320001
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07311989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
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:	19320001
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06291990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
Liquids Removed (Gals):	1860
Liquids Treated (Gals):	0
Action Included Capping:	X
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	N
Activity Comments:	550,000 CUBIC YARDS CAPPED, 1,860 TONS REMOVED.
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19320001
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE CORPORATION (Continued)

S100833315

Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	07121990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
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:	19320001
Activity:	DEED
Activity Name:	DEED RESTRICTIONS
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12161991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE
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:	19320001
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	1
Proposed Budget:	0
AWP Completion Date:	06301995
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	COM
Definition of Status:	CERTIFIED / OPERATION & MAINTENANCE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE CORPORATION (Continued)

S100833315

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: 2420 EAST 223RD STREET
Alternate City,St,Zip: CARSON, CA 90810
Background Info: This 65-acre site was used from 1937 to 1982 to manufacture asbestos insulation products, cement and polyvinyl chloride pipe. Site has been certified. Contaminants were asbestos.
Comments Date: 01011983
Comments: This is the date the site was first listed pursuant to
Comments Date: 01011983
Comments: section 25356.
Comments Date: 01141991
Comments: DHS received EPA Federal Investigation Team's Screening
Comments Date: 01141991
Comments: Site Inspection Summary Report. EPA recommends NFA (3/22/90)
Comments Date: 02151981
Comments: Facility identified via LA County Engineers files.
Comments Date: 02171981
Comments: Facility Drive-by: Active facility.
Comments Date: 02241981
Comments: Sent letter requesting information.
Comments Date: 04131981
Comments: Records Search (RWQCB): Permit for non-process waters.
Comments Date: 04151982
Comments: Records Search (LA County Engineering): Index 223, Permit
Comments Date: 04151982
Comments: 6087J current.
Comments Date: 05011989
Comments: Remedial Investigation / Feasibility Study approved (capping
Comments Date: 05011989
Comments: asbestos in two on-site cells).
Comments Date: 06191989
Comments: Records Search: Site listed in 1989 Bond Expenditure Plan.
Comments Date: 06291990
Comments: Certification of Remedial Action Plan (asbestos/underground
Comments Date: 06291990
Comments: storage tanks) by DHS.
Comments Date: 07011989
Comments: Remedial Action Plan approved by DHS.
Comments Date: 07011990
Comments: PCE/TCE groundwater investigation pending.
Comments Date: 07121990
Comments: The Department and Manville Sales Corporation entered into a
Comments Date: 07121990
Comments: Consent Agreement on June 30, 1990 to restrict land use at
Comments Date: 07121990
Comments: Manville site. This deed was recorded in Los Angeles County
Comments Date: 07121990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANVILLE CORPORATION (Continued)

S100833315

Comments: Recorder on July 12, 1990.
Comments Date: 08181991
Comments: Records Search: Site Certified in June 1990.
Comments Date: 09011989
Comments: Asbestos remediation started.
Comments Date: 12161991
Comments: Amended deed restriction recorded 12/03/91.
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD060386596
ID Name: BEP DATABASE PCODE
ID Value: P41023
ID Name: CALSTARS CODE
ID Value: 300089
Alternate Name: JOHNS-MANVILLE CORPORATION
Alternate Name: MANVILLE CORPORATION
Alternate Name: JOHNS-MANVILLE, CARSON
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

CA BOND EXP. PLAN:

Responsible Party: RESPONSIBLE PARTY LEAD 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: The responsible party has paid for all remediation activities to date and is expected to continue. The RP provided DHS with \$50,000 advance funding for DHS' oversight and monitoring costs under the terms of the enforceable agreement signed in November, 1987. The \$50,000 in advance funds have been spent. DHS has budgeted \$50,000 for contractor assistance to DHS oversight/monitoring staff. DHS will recover 100 percent of direct costs plus staff costs related to the project.
Site Description: This 65-acre site was used from 1937 to 1982 to manufacture asbestos insulation products, cement and polyvinyl chloride pipe. The site is currently vacant but contains spilled and buried asbestos waste.
Hazardous Waste Desc: Numerous buried settling ponds and disposal pits which contain asbestos wastes exist throughout the site.
Threat To Public Health & Env: The primary threat is human exposure to a release of asbestos fibers. To preclude direct contact with the substances, the site is fenced and secured 24 hours a day.
Site Activity Status: Manville Corporation entered into an enforceable agreement with the Department in November, 1987 to conduct remedial investigation activities. A remedial investigation was conducted to define the nature and extent of contamination and to determine the type and extent of remedial measures necessary. A feasibility study was approved July, 1988. A draft RAP is under review by DHS and is expected to be final by January, 1989.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

P93
NNW
1/2-1
0.852 mi.
4500 ft.

Relative:
Higher

Actual:
24 ft.

STAUFFER MANAGEMENT COMPANY LLC
2112 EAST 223RD STREET
CARSON, CA 90745

Site 2 of 2 in cluster P

SEMS-ARCHIVE **1000424829**
CORRACTS **CAD076941103**
RCRA-TSDF
RCRA-LQG
ENVIROSTOR
CPS-SLIC
HIST Cal-Sites
HIST UST
2020 COR ACTION
HWP

SEMS Archive:
Site ID: 901593
EPA ID: CAD076941103
Cong District: 31
FIPS Code: 6037
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 9
Site ID: 901593
EPA ID: CAD076941103
Site Name: STAUFFER CHEM CO
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1987-09-01 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 9
Site ID: 901593
EPA ID: CAD076941103
Site Name: STAUFFER CHEM CO
NPL: N
FF: N
OU: 0
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1986-08-01 00:00:00
Finish Date: 1987-09-01 00:00:00
Qual: N
Current Action Lead: St Perf

Region: 9
Site ID: 901593
EPA ID: CAD076941103
Site Name: STAUFFER CHEM CO
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

SEQ: 1
Start Date: 1986-08-01 00:00:00
Finish Date: 1986-08-01 00:00:00
Qual: Not reported
Current Action Lead: St Perf

CORRACTS:

EPA ID: CAD076941103
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20090101
Action: CA550RC
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20090101
Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980601
Action: CA725IN - Current Human Exposures Under Control, More information is needed to make a determination
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19980601
Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19980601
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19980601
Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: SOILS
Actual Date: 19950301
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: SOILS
Actual Date: 20080514

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: CAD076941103

EPA Region: 9

Area Name: ENTIRE FACILITY

Actual Date: 20080514

Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: 20080514

Schedule end date: Not reported

EPA ID: CAD076941103

EPA Region: 9

Area Name: ENTIRE FACILITY

Actual Date: 20080416

Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: 20080416

Schedule end date: Not reported

EPA ID: CAD076941103

EPA Region: 9

Area Name: SOILS

Actual Date: 19960716

Action: CA200 - RFI Approved

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: CAD076941103

EPA Region: 9

Area Name: SOILS

Actual Date: 19970625

Action: CA400 - Date For Remedy Selection (CM Imposed)

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: CAD076941103

EPA Region: 9

Area Name: SOILS

Actual Date: 19970130

Action: CA350 - CMS Approved

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: SOILS
Actual Date: 19970130
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19981130
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: 19981130

Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19981130
Action: CA050 - RFA Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: 19981130

Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: SOILS
Actual Date: 19971231
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: CAD076941103
EPA Region: 9
Area Name: SOILS
Actual Date: 19971231
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 09/12/2012

Facility name: STAUFFER MANAGEMENT COMPANY LLC

Facility address: 2112 EAST 223RD STREET
CARSON, CA 90745

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

EPA ID: CAD076941103
Mailing address: CONCORD PIKE, PO BOX 15437
WILMINGTON, DE 19850
Contact: CHARLES ELMENDORF
Contact address: CONCORD PIKE, PO BOX 15437
WILMINGTON, DE 19850-5437
Contact country: US
Contact telephone: 302-885-7048
Contact email: Not reported
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: STAUFFER MANAGEMENT COMPANY LLC
Owner/operator address: CONCORD PIKE, PO BOX 15437
WILMINGTON, DE 19850
Owner/operator country: Not reported
Owner/operator telephone: 302-885-7048
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: 01/01/1959
Owner/Op end date: Not reported

Owner/operator name: STAUFFER MANAGEMENT COMPANY LLC
Owner/operator address: P.O. BOX 15437
WILMINGTON, DE 19850
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: Owner
Owner/Op start date: 12/08/2000
Owner/Op end date: Not reported

Owner/operator name: STAUFFER MANAGEMENT COMPANY LLC
Owner/operator address: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Owner/operator country: Not reported
Owner/operator telephone: US
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: 12/08/2000
Owner/Op end date: Not reported

Owner/operator name: STAUFFER MANAGEMENT COMPANY LLC
Owner/operator address: CONCORD PIKE, PO BOX 15437
WILMINGTON, DE 19850

Owner/operator country: Not reported
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: 01/01/1959
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

. Waste code: 252
. Waste name: Other still bottom waste

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D040

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

- . Waste name: TRICHLOROETHYLENE
- . Waste code: D043
- . Waste name: VINYL CHLORIDE

Historical Generators:

Date form received by agency: 05/19/2010
Site name: STAUFFER MANAGEMENT COMPANY LLC
Classification: Large Quantity Generator

- . Waste code: 351
- . Waste name: Organic solids with halogens

- . Waste code: D043
- . Waste name: VINYL CHLORIDE

Date form received by agency: 02/19/2008
Site name: STAUFFER MANAGEMENT COMPANY LLC
Classification: Large Quantity Generator

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

Date form received by agency: 02/23/2006
Site name: STAUFFER MANAGEMENT COMPANY LLC
Classification: Small Quantity Generator

Date form received by agency: 02/23/2006
Site name: STAUFFER MANAGEMENT COMPANY LLC
Classification: Large Quantity Generator

- . Waste code: D028
- . Waste name: 1,2-DICHLOROETHANE

Date form received by agency: 02/25/2002
Site name: STAUFFER MNGMT CO LLC
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: STAUFFER MANAGEMENT COMPANY
Classification: Large Quantity Generator

Date form received by agency: 04/15/1999
Site name: STAUFFER MANAGEMENT COMPANY
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: STAUFFER CHEM CO PLASTICS DIV
Classification: Not a generator, verified

Date form received by agency: 08/15/1980
Site name: STAUFFER CHEM CO PLASTICS DIV
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 07/31/1987

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Event:	LEAD AGENCY DETERMINATION
Event date:	07/31/1987
Event:	CA PRIORITIZATION-MEDIUM CA PRIORITY
Event date:	07/31/1987
Event:	PA OR CERCLA INSPECTION
Event date:	09/01/1987
Event:	PA OR CERCLA INSPECTION
Event date:	04/20/1991
Event:	CA PRIORITIZATION-LOW CA PRIORITY
Event date:	05/17/1994
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	05/17/1994
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	07/07/1994
Event:	INVESTIGATION IMPOSITION
Event date:	07/27/1994
Event:	CMS IMPOSITION
Event date:	03/01/1995
Event:	INVESTIGATION WORKPLAN APPROVED
Event date:	07/16/1996
Event:	INVESTIGATION COMPLETE
Event date:	01/30/1997
Event:	CMS COMPLETE
Event date:	01/30/1997
Event:	CMS WORKPLAN APPROVED
Event date:	06/25/1997
Event:	REMEDY DECISION
Event date:	12/31/1997
Event:	CORRECTIVE MEASURES DESIGN APPROVED
Event date:	12/31/1997
Event:	CMI WORKPLAN APPROVED
Event date:	06/01/1998
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	06/01/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	06/01/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Event date:	06/01/1998
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	06/01/1998
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-MORE INFORMATION NEEDED
Event date:	11/30/1998
Event:	RFA COMPLETED
Event date:	11/30/1998
Event:	RFA COMPLETED-ASSESSMENT WAS A RFA
Event date:	11/30/1998
Event:	DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NECESSARY
Event date:	04/16/2008
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	04/16/2008
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	05/14/2008
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	05/14/2008
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	01/01/2009
Event:	REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Event date:	01/01/2009
Event:	REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Event date:	Not reported
Event:	DEFERRAL TO ANOTHER AGENCY
Event date:	Not reported
Event:	REEVALUATE IN FY

Facility Has Received Notices of Violations:

Regulation violated:	F - 268.7
Area of violation:	LDR - General
Date violation determined:	06/25/1991
Date achieved compliance:	06/25/1991
Violation lead agency:	State
Enforcement action:	INITIAL 3008(A) COMPLIANCE
Enforcement action date:	12/17/1991
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	300
Final penalty amount:	300
Paid penalty amount:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 06/25/1991
Date achieved compliance: 06/25/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/17/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 300
Final penalty amount: 300
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 06/25/1991
Date achieved compliance: 06/25/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 12/17/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 300
Final penalty amount: 300
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/31/1987
Date achieved compliance: 09/14/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/28/1987
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: 03/31/1987
Date achieved compliance: 09/14/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/01/1987
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Evaluation Action Summary:

Evaluation date: 08/04/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 06/28/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 06/25/1991
Evaluation lead agency: State

Evaluation date: 06/28/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/25/1991
Evaluation lead agency: State

Evaluation date: 03/21/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/17/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/30/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/31/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 09/14/1987
Evaluation lead agency: State

ENVIROSTOR:

Facility ID: 80001681
Status: * Inactive
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: MBR
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.82332
Longitude: -118.2345
APN: 7315008049
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 7315008049
Alias Type: APN
Alias Name: CAD076941103
Alias Type: EPA Identification Number
Alias Name: 19280083
Alias Type: Envirostor ID Number
Alias Name: 80001681
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 07/27/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 04/16/2008
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: RFI Report
Completed Date: 07/16/1996
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: RFI Workplan
Completed Date: 03/01/1995
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 09/01/1987
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Corrective Measures Study Report
Completed Date: 01/30/1997
Comments: This is RI/FS Per Site Mit database

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Corrective Measures Study Workplan
Completed Date: 01/30/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Corrective Measure Implementation Workplan
Completed Date: 12/31/1997
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Design/Implementation Workplan
Completed Date: 12/31/1997
Comments: Remedial Design and Implementation Plan Approved per Site Mit database.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/31/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 06/01/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 06/01/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 05/14/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed
Completed Date: 01/01/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 05/17/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Completed Document Type: RCRA Facility Assessment Report
Completed Date: 11/30/1998
Comments: THE ANALOGOUS REVIEW TEAM CONCLUDED THAT THE 1982 AND 1986 SITE INVESTIGATIONS IN CONJUNCTION WITH THE 1995 RI CONSTITUTE AN ANALOGOUS RFA. RSARACINO 19980601.15:05S

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: SOILS
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/25/1997
Comments: Remedial Action Plan approved per Site Mit database

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

CPS-SLIC:

Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/30/2015
Global Id: SLT43298296
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL
Lead Agency Case Number: 80001681
Latitude: 33.824283
Longitude: -118.23659
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 0496B6
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Calsite:

Region: CYPRESS
Facility ID: 19280083
Facility Type: RP
Type: RESPONSIBLE PARTY
Branch: SB
Branch Name: SO CAL - CYPRESS
File Name: Not reported
State Senate District: 04251996
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Not Listed
SIC Code: 28

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

SIC Name: MANU - CHEMICALS & ALLIED PRODUCTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
Staff Member Responsible for Site: JSPIZMA
Supervisor Responsible for Site: Not reported
Region Water Control Board: LA
Region Water Control Board Name: LOS ANGELES
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 55
State Senate District Code: 28
Facility ID: 19280083
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 03161981
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: 19280083
Activity: ORDER
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code: ISE
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 06271994
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

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Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

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: 19280083
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 01301997
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: 19280083
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
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
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19280083
Activity: DES

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Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Activity Name: DESIGN
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 12311997
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: 19280083
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: GW
Proposed Budget: 0
AWP Completion Date: 09302007
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: 19280083
Activity: CERT
Activity Name: CERTIFICATION
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 12312008
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

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: 19280083
Activity: OM
Activity Name: OPERATION & MAINTENANCE
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: 12312039
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: 19280083
Activity: RIFS
Activity Name: REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code: GW
Proposed Budget: 0
AWP Completion Date: 12312005
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19280083
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: GW
Proposed Budget: 0
AWP Completion Date: 09302006
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: 19280083
Activity: RMDL
Activity Name: REMEDIAL ACTION (RAP REQUIRED)
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 02181999
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): 325000
Action Included Capping: Not reported
Well Decommissioned: Not reported
Action Included Fencing: Not reported
Removal Action Certification: N
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19280083
Activity: DES
Activity Name: DESIGN
AWP Code: GW
Proposed Budget: 0

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

AWP Completion Date: 03312007
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: 19280083
Activity: CEQA
Activity Name: CEQA INCLUDING NEGATIVE DECS
AWP Code: SOIL
Proposed Budget: 0
AWP Completion Date: Not reported
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
For Residential Reuse: 0
Unknown Type: 0
Facility ID: 19280083
Activity: CHP65
Activity Name: AMENDED ORDER/AGREEMENT, CHAPTER 6.5 TRANSITION
AWP Code: ORDER
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 04071999
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

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: 2112 EAST 223RD STREET
Alternate City,St,Zip: CARSON, CA 90745
Background Info: The Stauffer Chemical site is located at 2112 East 223rd Street in the City of Carson, Los Angeles County. The site occupies an area of approximately 25 acres. The site is an inactive polyvinyl chloride plant. The plant was deactivated in 1982 and the majority of buildings, chemical storage, and process facility have been removed and there is no active storage of hazardous waste materials at the site. 1,2 DCA or 1,2 dichloroethane and vinyl chloride are the primary constituents of concern. Soil and groundwater investigations have indicated the presence of chlorinated hydrocarbons.
Comments Date: 09251978
Comments: HEAVY METALS & CHLOR. HYDROCARBONS.
Comments Date: 01051985
Comments: ENFORCEMENT(OTHER) SEWER. NOTICE OF NON-COMPLI. MUST REPAIR
Comments Date: 01051985
Comments: FLOWMETER.
Comments Date: 01301997
Comments: DTSC reviewed and approved the revised Feasibility Study report.
Comments Date: 01301997
Comments: This completes the approval of the RI/FS for the soil operable
Comments Date: 01301997
Comments: unit.
Comments Date: 02011997
Comments: Further remedial investigation activities to define the
Comments Date: 02011997
Comments: vertical extent of chlorinated hydrocarbons in groundwater
Comments Date: 02011997
Comments: are in progress. Demolition of remaining structures begun
Comments Date: 02011997
Comments: in November 1996.
Comments Date: 02032003
Comments: As of 12/31/02, 161,000 lbs. of total VOCs have been removed
Comments Date: 02032003
Comments: from site soils.
Comments Date: 02041997
Comments: DTSC approved the RI II workplan for GW.
Comments Date: 02051999
Comments: RP submitted to DTSC draft Phase II GW Remedial Investigation
Comments Date: 02051999
Comments: Report and draft GW Feasibility Study Workplan.
Comments Date: 02221999
Comments: The soil treatment system is essentially complete and the
Comments Date: 02221999
Comments: system is operating. Almost 15,000 pounds of VOCs have been

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Comments Date: 02221999
Comments: removed by the soils remediation system to date.
Comments Date: 03101986
Comments: SOURCE ACT: (AMERICAN) MFG OF ETHL CHLORD ETHLENE DICHLORIDE,
Comments Date: 03101986
Comments: VINYL CHLORIDE. (STAUFFER) ALOS POLYVINYL CHLORIDE & RESINS.
Comments Date: 03101986
Comments: WASTE: WASTEWATER W/TRACE ORG CPVC RESIN CHLORINATED
Comments Date: 03101986
Comments: HYDROCARBONS, SULFER BAUXITE, DISTILLATION HEAVY ENDS FROM
Comments Date: 03101986
Comments: VINYL CHLOR & ETHYLENE DICHLORIDE PROD. WASTEWATER PH IS 10.5.
Comments Date: 03101986
Comments: VAPORS OF CHLORINE, HYDROGEN, CHLORIDE, DISCHLOROETHANE
Comments Date: 03101986
Comments: REMOVED BY SCRUBBER & DISC TO SEWER. CURRENTLY WORKING ON A
Comments Date: 03101986
Comments: CLOSURE PLAN W/DHS.
Comments Date: 03161981
Comments: FACILITY IDENTIFIED LA COUNTY ENGINEER'S FILE #04706
Comments Date: 03211960
Comments: INSPECTION(LOCAL) CO ENGR. VIO-DISCH OF CHLORIDE. TEMPER-
Comments Date: 03211960
Comments: ATURE 7 PH IN VIO.
Comments Date: 03211960
Comments: ENFORCEMENT(OTHER) CO ENGR. VIO IN ITEM 15.
Comments Date: 03301986
Comments: SUBMIT TO U.S. EPA.
Comments Date: 03311981
Comments: FACILITY DRIVE-BY ACTIVE CHEMICAL COMPANY
Comments Date: 04021981
Comments: FACILITY DRIVE-BY ASP SITE VISIT, NO INSP WAS COMPLETED.
Comments Date: 04031995
Comments: THE RI WORKPLAN AND PUBLIC PARTICIPATION PLAN WERE APPROVED IN
Comments Date: 04031995
Comments: FEBRUARY OF 1995.
Comments Date: 04081976
Comments: INSPECTION(LOCAL) CO HLTH. POTNTIAL HZD PRESENT-VC,CHLORIN
Comments Date: 04081976
Comments: EDC & OTHERS.
Comments Date: 04151982
Comments: LA CO ENG INDEX 4706, PERMIT 5505J CURR
Comments Date: 04151982
Comments: LA CO SANIT PERMIT IW 5505J
Comments Date: 04171978
Comments: INSPECTION(STATE) AIR RESOURCE BOARD. SAMPLE SHOWED HIGH
Comments Date: 04171978
Comments: CONCENTRATION OF VINYL CHLORIDE.
Comments Date: 04181997
Comments: The May 1997 Fact Sheet #2 was completed.
Comments Date: 04251995
Comments: TSD facility--large quantity generator.
Comments Date: 04261995
Comments: 5-20-TSD. CAD 020764050/NO WATERBOARD VGT PROGRAM.
Comments Date: 04301997
Comments: Draft RAP for the soil operable unit was completed.
Comments Date: 05131981

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Comments: INSPECTION(STATE) INSP COMPLETED.SITE REGULATED.
Comments Date: 06251997
Comments: DTSC approved soil RAP and Negative Declaration. The selected
Comments Date: 06251997
Comments: alternative addresses the soil operable unit as an interim
Comments Date: 06251997
Comments: measure. The project includes vapor and liquid extraction with
Comments Date: 06251997
Comments: vapor and liquid treatment for soils. The interim cleanup
Comments Date: 06251997
Comments: number for 1,2, DCA is 20 ppm.
Comments Date: 07032002
Comments: Nine on-site GW wells were installed from March to July to
Comments Date: 07032002
Comments: aid in vertical characterization of groundwater contamination.
Comments Date: 07071994
Comments: Consent Order signed, 01/30/97 RI/FS for soil approved.
Comments Date: 07091999
Comments: Field work started in the eastern portion of the property to
Comments Date: 07091999
Comments: install a deep well in the E-zone, well 9E, and CPT will be
Comments Date: 07091999
Comments: done.
Comments Date: 08031982
Comments: FACILITY DRIVE-BY ASP. NO SIGN OF ON-SITE DISP.
Comments Date: 08031982
Comments: PRE LOC: 23208 S.ALAMEDA(#19-28-0130)
Comments Date: 08071985
Comments: FACILITY DRIVE-BY ASAP. U/G TANKS, REMOVAL OF SOME STRUCTR
Comments Date: 08071985
Comments: FACILITY INACTIVE.
Comments Date: 08211998
Comments: Air Permit was issued by SCAQMD. On 08/25/98, the oxidizer
Comments Date: 08211998
Comments: will be calibrated and be prepared to run using propane.
Comments Date: 08211998
Comments: On 08/27/98, RP will start connecting wells to the system by
Comments Date: 08211998
Comments: early September, RP will be starting up the system for soil O.U.
Comments Date: 09231999
Comments: DTSC received revised GW Health Risk Assessment and is under
Comments Date: 09231999
Comments: review.
Comments Date: 09251978
Comments: ENFORCEMENT(OTHER) RWQCB. LETTER-POSSIBLE ISSUANCE OF OTC
Comments Date: 09251978
Comments: DISCH IN EXCESS OF LIMIT FOR OIL,GREASE,
Comments Date: 09301997
Comments: DTSC received draft Design Plans and Implementation Plans for
Comments Date: 09301997
Comments: review and comment.
Comments Date: 10021979
Comments: ENFORCEMENT(OTHER) LACSD. FAILURE TO IMPLEMENT REVIED
Comments Date: 10021979
Comments: INDUST WASTE DISCH REQ.
Comments Date: 12081981
Comments: ENFORCEMENT(OTHER) LACSD. NOV. IMPLEMENT REVISED INDUST

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Comments Date: 12081981
Comments: WASTEWATER DISCH REQ FOR ETHYLENE DICHLR
Comments Date: 12131983
Comments: INSPECTION(STATE) DHS/FPU. INSP OF EMPTY TANKS. REQ OF
Comments Date: 12131983
Comments: CHAR PLAN. SUBMITTED ON 1/85.
Comments Date: 12311997
Comments: Soil remedial Design and Implementation Plans were approved by
Comments Date: 12311997
Comments: DTSC.
ID Name: CALSTARS CODE
ID Value: 400264
ID Name: HWIS IDENTIFICATION CODE
ID Value: CAD076941103
ID Name: EPA IDENTIFICATION NUMBER
ID Value: CAD076941103
Alternate Name: STAUFFER CHEMICAL, CARSON
Alternate Name: AMERICAN CHEMICAL CORP (1959-1975)
Alternate Name: STAUFFER MANAGEMENT COMPANY (1987-CURREN
Alternate Name: ATKEMIX 37 INC.
Alternate Name: ASTRA ZENECA
Alternate Name: Not reported
Special Programs Code: C104
Special Programs Name: CERCLA 104

HIST UST:

File Number: 00028875
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028875.pdf>
Region: STATE
Facility ID: 00000003022
Facility Type: Other
Other Type: PETROCHEMICAL
Contact Name: W. F. STIEF
Telephone: 2138348571
Owner Name: STAUFFER CHEMICAL COMPANY
Owner Address: NYALA FARM ROAD
Owner City,St,Zip: WESTPORT, CT 06881
Total Tanks: 0010

Tank Num: 001
Container Num: T-612
Year Installed: 1962
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: T-613
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Tank Num: 003
Container Num: TANK FARM
Year Installed: 1965
Tank Capacity: 00325000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 16
Leak Detection: Visual

Tank Num: 004
Container Num: 1
Year Installed: 1959
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 10
Leak Detection: Visual

Tank Num: 005
Container Num: 2
Year Installed: 1959
Tank Capacity: 00024000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 10
Leak Detection: Visual

Tank Num: 006
Container Num: 5
Year Installed: 1964
Tank Capacity: 00014000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 15
Leak Detection: Visual

Tank Num: 007
Container Num: 4
Year Installed: 1962
Tank Capacity: 00021000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Visual

Tank Num: 008
Container Num: #3 SUMP
Year Installed: 1978
Tank Capacity: 00097000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 15
Leak Detection: Visual

Tank Num: 009
Container Num: 6
Year Installed: 1959

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Visual

Tank Num: 010
Container Num: 7
Year Installed: 1978
Tank Capacity: 00009000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

[Click here for Geo Tracker PDF:](#)

2020 COR ACTION:

EPA ID: CAD076941103
Region: 9
Action: Remedy Construction

HWP:

EPA Id: CAD076941103
Cleanup Status: UNDERGOING CLOSURE
Latitude: 33.82332
Longitude: -118.2345
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD076941103
Facility Type: Historical - Non-Operating
Unit Names: INCINERTR, TANKSTR1, TANKSTR2, TANKTRT1, TANKTRT2
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 12/13/1980

Closure:

EPA Id: CAD076941103
Facility Type: Historical - Non-Operating
Unit Names: INCINERTR, TANKSTR1, TANKSTR2, TANKTRT1, TANKTRT2
Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 06/27/1994

EPA Id: CAD076941103
Facility Type: Historical - Non-Operating
Unit Names: INCINERTR, TANKSTR1, TANKSTR2, TANKTRT1, TANKTRT2
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 06/17/1983

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STAUFFER MANAGEMENT COMPANY LLC (Continued)

1000424829

Alias:
EPA Id: CAD076941103
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 19280083

94 VALERO WILMINGTON ASPHALT PLANT
SSW 1651 ALAMEDA ST
1/2-1 WILMINGTON, CA 90744
0.880 mi.
4644 ft.
Relative:
Higher
Actual:
41 ft.

SEMS-ARCHIVE 1000422869
CORRACTS 90744HNTWY1651A
RCRA-TSDF
RCRA-LQG
ENVIROSTOR
CPS-SLIC
HIST UST
CHMIRS
TRIS
ICIS
US AIRS
EMI
ICE
HWP
NPDES
WDS
CIWQS

SEMS Archive:
Site ID: 904458
EPA ID: CAD981373053
Cong District: 32
FIPS Code: 6037
FF: N
NPL: Not on the NPL
Non NPL Status: Deferred to RCRA (Subtitle C)

SEMS Archive Detail:
Region: 9
Site ID: 904458
EPA ID: CAD981373053
Site Name: HUNTWAY REFINING
NPL: N
FF: N
OU: 0
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1996-01-23 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 9
Site ID: 904458
EPA ID: CAD981373053
Site Name: HUNTWAY REFINING
NPL: N
FF: N
OU: 0
Action Code: PA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1992-07-22 00:00:00
Qual: D
Current Action Lead: EPA Perf

Region: 9
Site ID: 904458
EPA ID: CAD981373053
Site Name: HUNTWAY REFINING
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1992-04-08 00:00:00
Finish Date: 1992-04-08 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf

CORRACTS:

EPA ID: CAD981373053
EPA Region: 9
Area Name: BURIED DRUM REMOVAL
Actual Date: 19960627
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19960727
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/28/2008
Facility name: ULTRAMAR INC. WILMINGTON ASPHALT PLANT
Facility address: 1651 ALAMEDA STREET
WILMINGTON, CA 90744
EPA ID: CAD981373053
Mailing address: PO BOX 1257
WILMINGTON, CA 90748
Contact: JON E ELLIOTT
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 562-495-5490
Contact email: JON.ELLIOTT@VALERO.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: VALERO REFINING COMPANY-CA
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: 06/01/2001
Owner/Op end date: Not reported

Owner/operator name: VALERO ENERGY CORPORATION
Owner/operator address: PO BOX 1257
WILMINGTON, CA 90748
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: Owner
Owner/Op start date: 06/01/2001
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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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.

Historical Generators:

Date form received by agency: 02/09/2004

Site name: VALERO WILMINGTON ASPHALT PLANT

Classification: Small Quantity Generator

Date form received by agency: 02/09/2004

Site name: VALERO WILMINGTON ASPHALT PLANT

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: F037
. Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

Date form received by agency: 01/18/2002
Site name: VALERO WILMINGTON ASPHALT PLANT
Classification: Large Quantity Generator

Date form received by agency: 06/04/2001
Site name: VALERO WILMINGTON ASPHALT PLANT
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D018
. Waste name: BENZENE

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MAP FINDINGS

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K169
- . Waste name: Crude oil storage tank sediment from petroleum refining operations.

Date form received by agency: 10/12/2000
Site name: HUNTWAY REFINING COMPANY, WILMINGTON
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: HUNTWAY REFINING COMPANY
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: VALERO WILMINGTON ASPHALT PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/21/1996

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Site name: HUNTWAY REFINING COMPANY
Classification: Large Quantity Generator

Date form received by agency: 03/10/1994

Site name: HUNTWAY REFINING COMPANY
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992

Site name: HUNTWAY REFINING CO
Classification: Large Quantity Generator

Corrective Action Summary:

Event date: 07/15/1992
Event: LEAD AGENCY DETERMINATION

Event date: 07/15/1992
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 07/15/1992
Event: RFA COMPLETED-ASSESSMENT WAS A PA-PLUS

Event date: 08/28/1992
Event: CA PRIORITIZATION-MEDIUM CA PRIORITY

Event date: 08/28/1992
Event: STABILIZATION MEASURES EVALUATION-FACILITY NOT AMENABLE TO STABILIZATION

Event date: 06/27/1996
Event: CA PROCESS IS TERMINATED-NO FURTHER ACTION

Event date: 06/30/2005
Event: CA PROCESS IS TERMINATED

Event date: 06/30/2005
Event: RFA COMPLETED

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/06/2001
Date achieved compliance: 11/13/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/06/2001
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 - 264.90-94.F
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 06/16/1995
Date achieved compliance: 05/22/1996

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/1995
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: 10/05/1994
Date achieved compliance: 11/04/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1994
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/05/1994
Date achieved compliance: 11/04/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/05/1994
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/04/1994
Date achieved compliance: 11/04/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/04/1994
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: 10/04/1994
Date achieved compliance: 11/04/1994
Violation lead agency: State

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/04/1994
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 - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 10/09/1992
Date achieved compliance: 11/11/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/09/1992
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 10/09/1992
Date achieved compliance: 11/11/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/09/1992
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 - 264.70-77.E
Area of violation: TSD - General
Date violation determined: 01/06/1992
Date achieved compliance: 05/14/1992
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 - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 01/06/1992
Date achieved compliance: 05/14/1992
Violation lead agency: EPA
Enforcement action: Not reported

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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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 - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 01/06/1992
Date achieved compliance: 05/14/1992
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 - 264.30-37.C
Area of violation: TSD - General
Date violation determined: 01/06/1992
Date achieved compliance: 05/14/1992
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

Evaluation Action Summary:
Evaluation date: 01/24/2018
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/15/2015
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/22/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/07/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/18/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/23/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/06/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/13/2001
Evaluation lead agency: State

Evaluation date: 10/20/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/20/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/22/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/02/1995
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 05/22/1996
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/04/1994
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/04/1994
Evaluation lead agency: State

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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Evaluation date: 09/08/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/27/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/11/1992
Evaluation lead agency: State

Evaluation date: 08/27/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 11/11/1992
Evaluation lead agency: State

Evaluation date: 11/22/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/14/1992
Evaluation lead agency: EPA

Evaluation date: 11/09/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

ENVIROSTOR:

Facility ID: 80001767
Status: Active
Status Date: 01/14/2016
Site Code: 401733
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Isaac Hirbawi
Supervisor: Maryam Tasnif-Abbasi
Division Branch: Cleanup Cypress
Assembly: 64
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.79802
Longitude: -118.2388
APN: NONE SPECIFIED
Past Use: ABOVE GROUND STORAGE TANKS, WASTE WATER PONDS
Potential COC: Benzene TPH-diesel TPH-MOTOR OIL
Confirmed COC: Benzene TPH-MOTOR OIL
Potential Description: NONE SPECIFIED
Alias Name: CAD981373053

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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Alias Type: EPA Identification Number
Alias Name: 110000476048
Alias Type: EPA (FRS #)
Alias Name: 400426
Alias Type: Project Code (Site Code)
Alias Name: 401733
Alias Type: Project Code (Site Code)
Alias Name: 80001767
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 05/26/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/15/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/30/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * CA Process is Terminated
Completed Date: 06/30/2005
Comments: The RFA dated 6/30/05 indicated NFA is necessary for this site. The only unit SURFTRT1 was clean closed on 4/01/96.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/04/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 06/14/2016
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2016
Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/24/2016

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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Comments: Completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 11/22/2016
Comments: Action completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/22/2016
Comments: DTSC submitted comments on this report in November 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/22/2016
Comments: DTSC submitted comments on this report in November 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/22/2016
Comments: DTSC submitted comments on this report in November 2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/01/2017
Comments: Activity completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 11/20/2017
Comments: Action completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/05/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 08/28/1992
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: BURIED DRUM REMOVAL
Completed Document Type: No Further Action Letter
Completed Date: 06/27/1996
Comments: DTSC determined the interim measure specific to the removal of buried drums has been completed. A total of 20 buried drums were removed from under the southern slope of the former surface impoundment. No

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VALERO WILMINGTON ASPHALT PLANT (Continued)

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further action for the buried drums is required except for submittal of the waste manifest for the drum contents and the contaminated soil. On 4/1/1996, DTSC issued closure certification approval with conditions for the former surface impoundment. As a condition of closure certification approval, the Facility (Huntway) agreed to monitoring groundwater on a quarterly basis for one year concluding in December 1996. Unless new evidence warrant additional action and provided the Facility complies with the requirements of the closure certification approval, DTSC hereby concludes regulatory involvement of the former surface impoundment and the planned construction on the site can begin. DTSC is preparing a RCRA Facility Assessment (RFA) for other portions of the Facility based on a visual site inspection conducted on May 15, 1996.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Payment Agreement
Completed Date: 02/17/2016
Comments: Ultramar Inc.'s - Valero Wilmington Asphalt Plant agreed to reimburse DTSC costs on 2/17/2016.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/28/2016
Comments: FY 2016/2017 ACE completed.

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

SLIC REG 4:

Region: 4
Facility Status: Not reported
SLIC: 0047
Substance: Not reported
Staff: Department of Toxic Substances Control

HIST UST:

File Number: 00026F02
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026F02.pdf>
Region: STATE
Facility ID: 00000007663
Facility Type: Other
Other Type: PETROLEUM REFINERY
Contact Name: ROBERT L. MONSON
Telephone: 2135184000
Owner Name: HUNTWAY REFINING COMPANY
Owner Address: 1651 ALAMEDA STREET
Owner City,St,Zip: WILMINGTON, CA 90744

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Total Tanks: 0003

Tank Num: 001
Container Num: #2 (NEUTRA
Year Installed: 1982
Tank Capacity: 00001300
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

Tank Num: 002
Container Num: #1 (OIL WA
Year Installed: 1979
Tank Capacity: 00003874
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

Tank Num: 003
Container Num: #3(OILY WA
Year Installed: 1979
Tank Capacity: 00083000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 8
Leak Detection: Visual

[Click here for Geo Tracker PDF:](#)

CHMIRS:

OES Incident Number: 1-7465
OES notification: 12/27/2001
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

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MAP FINDINGS

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

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:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Valero Wilmington Asphalt Plant
Incident Date:	12/27/2001 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	Crude Oil;;;
BBLS:	4
Unknown:	0.000000
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:	During transfer process a seal failed in a pump, causing substance to be released.

TRIS:

[Click this hyperlink](#) while viewing on your computer to access 10 additional US_TRIS: record(s) in the EDR Site Report.

ICIS:

Enforcement Action ID:	CASCAA200143124
FRS ID:	110000476048
Action Name:	NOV P60361 ISSUED 09/02/2016 FOR RULE 1173(d)(1)(B)
Facility Name:	VALERO WILMINGTON ASPHALT PLANT
Facility Address:	1651 ALAMEDA ST WILMINGTON, CA 90744
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES

Map ID
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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200138322
FRS ID: 110000476048
Action Name: NOV P60359 FOR RULES 1173 AND 3002
Facility Name: VALERO WILMINGTON ASPHALT PLANT
Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200132960
FRS ID: 110000476048
Action Name: NOV P61017 FOR RULE 2004(e)(1), 2004(d)(4), AND 2012 APPENDIX A
CHAPTER 3 (I)(2)
Facility Name: VALERO WILMINGTON ASPHALT PLANT
Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060379502100087
FRS ID: 110000476048
Action Name: VALERO WILMINGTON ASPHALT PLANT 060379502100087
Facility Name: VALERO WILMINGTON ASPHALT PLANT

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO

Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060379502100086
FRS ID: 110000476048
Action Name: VALERO WILMINGTON ASPHALT PLANT 060379502100086
Facility Name: VALERO WILMINGTON ASPHALT PLANT
Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060379502100032
FRS ID: 110000476048
Action Name: VALERO WILMINGTON ASPHALT PLANT 060379502100032
Facility Name: VALERO WILMINGTON ASPHALT PLANT
Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060379502100031

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EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

FRS ID: 110000476048
Action Name: VALERO WILMINGTON ASPHALT PLANT 060379502100031
Facility Name: VALERO WILMINGTON ASPHALT PLANT
Facility Address: 1651 ALAMEDA ST
WILMINGTON, CA 90744
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.79699
Longitude in Decimal Degrees: -118.23971
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603795021
Facility NAICS Code: 324110
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1000422869
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
D and B Number: Not reported
Facility Site Name: VALERO WILMINGTON ASPHALT PLANT
Primary SIC Code: 2911
NAICS Code: 324110
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1979-11-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1980-04-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1980-08-27 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1980-10-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1981-07-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1982-01-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 1982-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1983-01-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1983-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1984-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1985-05-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1986-05-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1987-03-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1988-03-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1989-04-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1989-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1990-06-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1991-02-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1992-03-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1993-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1994-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1995-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1996-09-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1997-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2006-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 2007-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2007-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2008-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2010-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-07-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-02-03 13:10:08
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2012-09-07 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-02-27 00:00:00
Activity Status Date: 2016-02-03 13:04:58
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-06 00:00:00
Activity Status Date: 2016-02-03 13:26:59
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-10-29 00:00:00
Activity Status Date: 2016-02-03 13:29:25
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-02-27 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-07-02 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-08-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-12-18 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603795021
Facility Registry ID:	110000476048
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-04-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-04-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 2013-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-07-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-07-30 00:00:00
Activity Status Date: 2010-07-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-30 00:00:00
Activity Status Date: 2010-04-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2016-06-10 17:39:58
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-04-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2012-09-07 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-20 00:00:00
Activity Status Date: 2016-02-03 13:23:30
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-26 00:00:00
Activity Status Date: 2016-02-03 13:20:35
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-27 00:00:00
Activity Status Date: 2016-02-03 13:04:58
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-06 00:00:00
Activity Status Date: 2016-02-03 13:26:59
Activity Group: Compliance Monitoring

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-10-29 00:00:00
Activity Status Date: 2016-02-03 13:29:25
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-26 00:00:00
Activity Status Date: 2016-05-11 17:23:06
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-08-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-06-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 1999-09-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

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EDR ID Number
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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: 2011-06-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-06-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-03-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-06-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-01 00:00:00
Activity Status Date: 2004-10-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-07-30 00:00:00
Activity Status Date: 2010-07-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-04-15 00:00:00
Activity Status Date: 2004-04-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-30 00:00:00
Activity Status Date: 2010-04-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Activity Date: Not reported
Activity Status Date: 2014-06-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603795021
Facility Registry ID: 110000476048
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2016-04-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

EMI:

Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18
Reactive Organic Gases Tons/Yr: 14
Carbon Monoxide Emissions Tons/Yr: 3
NOX - Oxides of Nitrogen Tons/Yr: 30
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 3
Part. Matter 10 Micrometers and Smlr Tons/Yr:3

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 72
Reactive Organic Gases Tons/Yr: 51
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 19
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 3
Part. Matter 10 Micrometers and Smlr Tons/Yr:3

Year: 1993
County Code: 19
Air Basin: SC

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 33
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 40
Reactive Organic Gases Tons/Yr: 33
Carbon Monoxide Emissions Tons/Yr: 1
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Year: 1996
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 36
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 1997
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Total Organic Hydrocarbon Gases Tons/Yr: 36
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 1998
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 36
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 1999
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 34
Reactive Organic Gases Tons/Yr: 27
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 8
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2000
County Code: 19
Air Basin: SC
Facility ID: 800070
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 36
Reactive Organic Gases Tons/Yr: 29
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 7
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2001
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 60
Reactive Organic Gases Tons/Yr: 38
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 8
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2002
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 41
Reactive Organic Gases Tons/Yr: 38
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 8
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2003
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 41
Reactive Organic Gases Tons/Yr: 38
Carbon Monoxide Emissions Tons/Yr: 7
NOX - Oxides of Nitrogen Tons/Yr: 8
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smlr Tons/Yr:1

Year: 2004
County Code: 19
Air Basin: SC
Facility ID: 800393

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Y
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 41.342393
Reactive Organic Gases Tons/Yr: 38.44
Carbon Monoxide Emissions Tons/Yr: 6.621
NOX - Oxides of Nitrogen Tons/Yr: 7.7382
SOX - Oxides of Sulphur Tons/Yr: 0.380306
Particulate Matter Tons/Yr: 1.197
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.84

Year: 2005
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 24.514476
Reactive Organic Gases Tons/Yr: 20.2961351361
Carbon Monoxide Emissions Tons/Yr: 7.990876
NOX - Oxides of Nitrogen Tons/Yr: 7.050417
SOX - Oxides of Sulphur Tons/Yr: .246841
Particulate Matter Tons/Yr: .94481
Part. Matter 10 Micrometers and Smlr Tons/Yr:.9256561

Year: 2006
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 28.77717573262218036
Reactive Organic Gases Tons/Yr: 24.662
Carbon Monoxide Emissions Tons/Yr: 8.888
NOX - Oxides of Nitrogen Tons/Yr: 9.21
SOX - Oxides of Sulphur Tons/Yr: .549
Particulate Matter Tons/Yr: 1.088
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.061536

Year: 2007
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 28.65833224725018933

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Reactive Organic Gases Tons/Yr: 24.662
Carbon Monoxide Emissions Tons/Yr: 8.888
NOX - Oxides of Nitrogen Tons/Yr: 9.21
SOX - Oxides of Sulphur Tons/Yr: .549
Particulate Matter Tons/Yr: 1.088
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.061536

Year: 2008
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 31.09598286855294314
Reactive Organic Gases Tons/Yr: 20.60588384706578864
Carbon Monoxide Emissions Tons/Yr: 6.40503
NOX - Oxides of Nitrogen Tons/Yr: 6.7052606351004427
SOX - Oxides of Sulphur Tons/Yr: .930216
Particulate Matter Tons/Yr: .801220962703295
Part. Matter 10 Micrometers and Smlr Tons/Yr:.78121077111569133

Year: 2009
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8.8851639854620093
Reactive Organic Gases Tons/Yr: 6.5834235999999997
Carbon Monoxide Emissions Tons/Yr: 6.0599999999999996
NOX - Oxides of Nitrogen Tons/Yr: 5.3300000000000001
SOX - Oxides of Sulphur Tons/Yr: 0.19176000000000001
Particulate Matter Tons/Yr: 0.74868622500000004
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.73140139409250005

Year: 2010
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 21.605356284017699
Reactive Organic Gases Tons/Yr: 15.716050149999999
Carbon Monoxide Emissions Tons/Yr: 6.0745699999999996
NOX - Oxides of Nitrogen Tons/Yr: 4.9594699999999996
SOX - Oxides of Sulphur Tons/Yr: 0.16925000000000001
Particulate Matter Tons/Yr: 0.74478999999999995
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.7279291

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Year: 2011
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18.143536228
Reactive Organic Gases Tons/Yr: 12.678377144
Carbon Monoxide Emissions Tons/Yr: 5.27735
NOX - Oxides of Nitrogen Tons/Yr: 4.78188
SOX - Oxides of Sulphur Tons/Yr: 0.14732
Particulate Matter Tons/Yr: 0.6249
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.61217328

Year: 2012
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18.42873819
Reactive Organic Gases Tons/Yr: 12.80687
Carbon Monoxide Emissions Tons/Yr: 5.9363
NOX - Oxides of Nitrogen Tons/Yr: 5.07057
SOX - Oxides of Sulphur Tons/Yr: 0.18384
Particulate Matter Tons/Yr: 0.6974412
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.68351036716

Year: 2013
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18.889019225
Reactive Organic Gases Tons/Yr: 13.26133
Carbon Monoxide Emissions Tons/Yr: 6.57373
NOX - Oxides of Nitrogen Tons/Yr: 6.06635
SOX - Oxides of Sulphur Tons/Yr: 0.21493355
Particulate Matter Tons/Yr: 1.39868
Part. Matter 10 Micrometers and Smlr Tons/Yr:1.3042997

Year: 2014
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 24.30764576
Reactive Organic Gases Tons/Yr: 18.66305
Carbon Monoxide Emissions Tons/Yr: 5.9272
NOX - Oxides of Nitrogen Tons/Yr: 5.69942
SOX - Oxides of Sulphur Tons/Yr: 0.22221
Particulate Matter Tons/Yr: 0.71828
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.70496262

Year: 2015
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 39.373089224
Reactive Organic Gases Tons/Yr: 33.635623637
Carbon Monoxide Emissions Tons/Yr: 7.059969023
NOX - Oxides of Nitrogen Tons/Yr: 6.40590754
SOX - Oxides of Sulphur Tons/Yr: 0.16038981
Particulate Matter Tons/Yr: 0.88265589
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.867654381

Year: 2016
County Code: 19
Air Basin: SC
Facility ID: 800393
Air District Name: SC
SIC Code: 2911
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 18.618052271
Reactive Organic Gases Tons/Yr: 13.1174164
Carbon Monoxide Emissions Tons/Yr: 6.87
NOX - Oxides of Nitrogen Tons/Yr: 5.57
SOX - Oxides of Sulphur Tons/Yr: 0.1006643
Particulate Matter Tons/Yr: 0.774799
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.76280933

ICE:
Envirostor ID: 3000768
EPA ID: CAD981373053
Site Type: INSPECTION
Facility Status: No Action

Inspection:
Action Type: Compliance Evaluation Inspection - Generator
Action Date: 10/07/2008
Violation Class: No Violations
RTC Date: Not reported

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 11/06/2001
Violation Class: Minor
RTC Date: 11/13/2001

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 04/18/2006
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 10/20/1999
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 05/22/2012
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 03/23/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Generator
Action Date: 01/24/2018
Violation Class: No Violations
RTC Date: Not reported

HWP:

EPA Id: CAD981373053
Cleanup Status: CLOSED
Latitude: 33.79802
Longitude: -118.2388
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: 400426
Assembly District: 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:

EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 09/25/1990

EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART B RECEIVED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Actual Date: 09/24/1991

EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 09/27/1990

Closure:
EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Unit Names: SURFTRT1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 03/21/1996

EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Unit Names: SURFTRT1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 04/01/1996

Alias:
EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000476048

EPA Id: CAD981373053
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 400426

NPDES:
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: 4 19I016559
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: Active
Status Date: 06/05/2001
Operator Name: Valero Refining Co California

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Operator Address: 2402 E Anaheim Street
Operator City: Wilmington
Operator State: California
Operator Zip: 90744

NPDES as of 03/2018:
NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 4
Regulatory Measure ID: 191190
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 4 19I016559
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/05/2001
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Valero Refining Co California
Discharge Address: 2402 E Anaheim Street
Discharge City: Wilmington
Discharge State: California
Discharge Zip: 90744
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported
Developer City: Not reported
Developer State: Not reported
Developer Zip: Not reported
Developer Contact: Not reported
Developer Contact Title: Not reported
Constype Linear Utility Ind: Not reported
Emergency Phone: Not reported
Emergency Phone Ext: Not reported
Constype Above Ground Ind: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial 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:	4
Regulatory Measure ID:	191190
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I016559
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:	06/05/2001
Status:	Active
Status Date:	06/05/2001
Place Size:	7
Place Size Unit:	Acres
Contact:	Natalie Irwin
Contact Title:	Environmental Manager
Contact Phone:	562-491-6890
Contact Phone Ext:	Not reported
Contact Email:	natalie.irwin@valero.com
Operator Name:	Valero Refining Co California
Operator Address:	1651 Alameda St
Operator City:	Wilmington

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Operator State:	California
Operator Zip:	90744
Operator Contact:	Natalie Irwin
Operator Contact Title:	Not reported
Operator Contact Phone:	562-491-6890
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:	562-491-6890
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 Commercial 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
Receiving Water Name:	Los Cerritos Channel
Certifier:	Natalie Irwin
Certifier Title:	Environmental Manager
Certification Date:	24-JUN-15
Primary Sic:	2911-Petroleum Refining
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
Facility Status:	Active
NPDES Number:	CAS000001
Region:	4
Agency Number:	0
Regulatory Measure ID:	191190
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	4 19I016559
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/05/2001
Termination Date Of Regulatory Measure:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 2402 E Anaheim Street
Discharge Name: Valero Refining Co California
Discharge City: Wilmington
Discharge State: California
Discharge Zip: 90744
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CAS000001
Status: Active
Agency Number: 0
Region: 4
Regulatory Measure ID: 191190
Order Number: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place ID: Not reported
WDID: 4 19I016559
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 06/05/2001
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Valero Refining Co California
Discharge Address: 2402 E Anaheim Street
Discharge City: Wilmington
Discharge State: California
Discharge Zip: 90744
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

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 Commercial 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:	4
Regulatory Measure ID:	191190
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I016559
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:	06/05/2001
Status:	Active
Status Date:	06/05/2001
Place Size:	7

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

Place Size Unit: Acres
Contact: Natalie Irwin
Contact Title: Environmental Manager
Contact Phone: 562-491-6890
Contact Phone Ext: Not reported
Contact Email: natalie.irwin@valero.com
Operator Name: Valero Refining Co California
Operator Address: 1651 Alameda St
Operator City: Wilmington
Operator State: California
Operator Zip: 90744
Operator Contact: Natalie Irwin
Operator Contact Title: Not reported
Operator Contact Phone: 562-491-6890
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: 562-491-6890
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 Commercial 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
Receiving Water Name: Los Cerritos Channel
Certifier: Natalie Irwin
Certifier Title: Environmental Manager
Certification Date: 24-JUN-15
Primary Sic: 2911-Petroleum Refining
Secondary Sic: Not reported
Tertiary Sic: Not reported

WDS:

Facility ID: 4 19I016559
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or

Map ID
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MAP FINDINGS

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Database(s)

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VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

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: 4

Facility Telephone: 3105184000

Facility Contact: MICHAEL MILLER

Agency Name: VALERO REFINING CO CA

Agency Address: 1651 Alameda St

Agency City,St,Zip: Wilmington 907441701

Agency Contact: MICHAEL MILLER

Agency Telephone: 3105184000

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 those who 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 dairy waste ponds.

CIWQS:

Agency: Valero Refining Co California

Agency Address: 2402 E Anaheim Street, Wilmington, CA 90744

Place/Project Type: Industrial - Petroleum Refining

SIC/NAICS: 2911

Region: 4

Program: INDSTW

Regulatory Measure Status: Active

Regulatory Measure Type: Storm water industrial

Order Number: 2014-0057-DWQ

WDID: 4 19I016559

NPDES Number: CAS000001

Adoption Date: Not reported

Effective Date: 06/05/2001

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MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

VALERO WILMINGTON ASPHALT PLANT (Continued)

1000422869

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:	33.79632
Longitude:	-118.2391

R95
SSW
1/2-1
0.893 mi.
4713 ft.

Relative:
Lower

Actual:
13 ft.

TESORO REFINING & MARKETING COMPANY LLC -- LA REFI
2101 E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744

Site 1 of 2 in cluster R

SEMS-ARCHIVE **1000144764**
CORRACTS **CAD041520644**
RCRA-TSDF
RCRA-LQG
US FIN ASSUR
2020 COR ACTION
ICIS
US AIRS
HWP

SEMS Archive:
 Site ID: 901330
 EPA ID: CAD041520644
 Cong District: 32
 FIPS Code: 6037
 FF: N
 NPL: Not on the NPL
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
 Region: 9
 Site ID: 901330
 EPA ID: CAD041520644
 Site Name: TEXACO REF. & MARKETING INC.
 NPL: N
 FF: N
 OU: 0
 Action Code: VS
 Action Name: ARCH SITE
 SEQ: 1
 Start Date: Not reported
 Finish Date: 1984-09-01 00:00:00
 Qual: Not reported
 Current Action Lead: EPA Perf In-Hse

Region: 9
 Site ID: 901330
 EPA ID: CAD041520644
 Site Name: TEXACO REF. & MARKETING INC.
 NPL: N
 FF: N
 OU: 0
 Action Code: PA
 Action Name: PA
 SEQ: 1
 Start Date: Not reported
 Finish Date: 1984-09-01 00:00:00

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Qual: N
Current Action Lead: EPA Perf

Region: 9
Site ID: 901330
EPA ID: CAD041520644
Site Name: TEXACO REF. & MARKETING INC.
NPL: N
FF: N
OU: 0
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1980-08-01 00:00:00
Finish Date: 1980-08-01 00:00:00
Qual: Not reported
Current Action Lead: EPA Perf

CORRACTS:

EPA ID: CAD041520644
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20010309
Action: CA725NO - Current Human Exposures Under Control, Current human exposures are NOT under control
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20010309
Schedule end date: Not reported

EPA ID: CAD041520644
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20010309
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20010309
Schedule end date: Not reported

EPA ID: CAD041520644
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19890509
Action: CA050 - RFA Completed
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19890509
Schedule end date: Not reported

EPA ID: CAD041520644
EPA Region: 9

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Area Name: ENTIRE FACILITY
Actual Date: 19940919
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 19940919
Schedule end date: Not reported
EPA ID: CAD041520644
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19850225
Action: CA100 - RFI Imposition
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported
EPA ID: CAD041520644
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19850225
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported
EPA ID: CAD041520644
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 20020328
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: 20020328
Schedule end date: Not reported
EPA ID: CAD041520644
EPA Region: 9
Area Name: GROUNDWATER
Actual Date: 19850930
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 32411
Petroleum Refineries
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:

Date form received by agency: 02/12/2016
Facility name: TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY
Facility address: 2101 E. PACIFIC COAST HIGHWAY

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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

EPA ID: WILMINGTON, CA 90744
CAD041520644
Mailing address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744
Contact: ROBERT J RIORDAN
Contact address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744
Contact country: US
Contact telephone: 310-522-6000
Telephone ext.: 6154
Contact email: ROBERT.J.RIORDAN@TSOCORP.COM
EPA Region: 09
Land type: Private
Classification: TSD
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: TESORO REFINING & MARKETING
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
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: 12/03/2012
Owner/Op end date: Not reported

Owner/operator name: TESORO REFINING & MARKETING
Owner/operator address: E. PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744
Owner/operator country: US
Owner/operator telephone: 310-522-6154
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: 12/03/2012
Owner/Op end date: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

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

- . Waste code: 162
- . Waste name: Other spent catalyst

- . Waste code: 181
- . Waste name: Other inorganic solid waste

- . Waste code: 331
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 352
- . Waste name: Other organic solids

- . Waste code: 551
- . Waste name: Laboratory waste chemicals

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Historical Generators:

Date form received by agency: 03/01/2014

Site name: TESORO REFINING & MARKETING COMPANY LLC - LA REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

Map ID
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MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F003
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- Date form received by agency: 12/19/2012
- Site name: TESORO REFINING AND MARKETING CO LLC LOS ANGELES REFINERY
- Classification: Large Quantity Generator

- . Waste code: 122
- . Waste name: Alkaline solution without metals (pH > 12.5)

- . Waste code: 132
- . Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

- . Waste code: 141

Map ID
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MAP FINDINGS

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EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste code: 151
- . Waste name: Off-specification, aged, or surplus inorganics

- . Waste code: 161
- . Waste name: Asbestos-containing waste

- . Waste code: 162
- . Waste name: Fluid-cracking catalyst (FCC) waste

- . Waste code: 181
- . Waste name: Other spent catalyst

- . Waste code: 214
- . Waste name: Other inorganic solid waste

- . Waste code: 221
- . Waste name: Unspecified solvent mixture

- . Waste code: 241
- . Waste name: Waste oil and mixed oil

- . Waste code: 331
- . Waste name: Tank bottom waste

- . Waste code: 352
- . Waste name: Off-specification, aged, or surplus organics

- . Waste code: 513
- . Waste name: Other organic solids

- . Waste code: 551
- . Waste name: Empty containers less than 30 gallons

- . Waste code: 611
- . Waste name: Laboratory waste chemicals

- . Waste code: 791
- . Waste name: Contaminated soil from site clean-ups

- . Waste code: D001
- . Waste name: Liquids with pH < 2

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K169
- . Waste name: Crude oil storage tank sediment from petroleum refining operations.

- . Waste code: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/17/2012

Site name: TESORO REFINING AND MARKETIONG COMPANY, LOS ANGELES REFINERY

Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 01/28/2010

Site name: TESORO REFINING AND MARKETING COMPANY -- LOS ANGELES REFINERY
Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Map ID
Direction
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Elevation

MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/20/2008

Site name: TESORO REFINING AND MARKETING COMPANY, LOS ANGELES REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D003
- . Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES

Map ID
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MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

. Waste code: D004

. Waste name: ARSENIC

. Waste code: D007

. Waste name: CHROMIUM

. Waste code: D008

. Waste name: LEAD

. Waste code: D009

. Waste name: MERCURY

. Waste code: D011

. Waste name: SILVER

. Waste code: D018

. Waste name: BENZENE

. Waste code: F003

. Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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: K050

. Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

. Waste code: K169

. Waste name: Crude oil storage tank sediment from petroleum refining operations.

. Waste code: K170

. Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

. Waste code: K171

. Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

. Waste code: U226

. Waste name: ETHANE, 1,1,1-TRICHLORO-

Date form received by agency: 06/04/2007

Site name: TESORO REFINING AND MARKETING CO LA REFI

Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050

Map ID
Direction
Distance
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY
- . Waste code: K169
- . Waste name: Crude oil storage tank sediment from petroleum refining operations.
- . Waste code: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.
- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/16/2006

Site name: EQUILON ENTERPRISES LLC, LA REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
- . Waste code: D004
- . Waste name: ARSENIC
- . Waste code: D006
- . Waste name: CADMIUM
- . Waste code: D007
- . Waste name: CHROMIUM
- . Waste code: D008
- . Waste name: LEAD
- . Waste code: D009
- . Waste name: MERCURY
- . Waste code: D018
- . Waste name: BENZENE
- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K170
- . Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 02/18/2004

Site name: EQUILON ENTERPRISES, LA REFINERY

Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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- . Waste code: D011
- . Waste name: SILVER

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

- Date form received by agency: 02/21/2002
- Site name: EQUILON ENTERPRISES, LOS ANGELES PLANT
- Classification: Large Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D010
- . Waste name: SELENIUM

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K169
- . Waste name: Crude oil storage tank sediment from petroleum refining operations.

- . Waste code: K171
- . Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)

Date form received by agency: 10/12/2000
Site name: EQUILON ENTERPRISES, LOS ANGELES REF CO
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: TEXACO REFINING & MARKETING INC., LOS AN
Classification: Large Quantity Generator

Date form received by agency: 05/29/1998
Site name: EQUILON ENTERPRISES LLC
Classification: Large Quantity Generator

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D004
- . Waste name: ARSENIC

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: F037
- . Waste name: PETROLEUM REFINERY PRIMARY OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE GENERATED FROM THE GRAVITATIONAL SEPARATION OF OIL/WATER/SOLIDS DURING THE STORAGE OR TREATMENT OF PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH SLUDGES INCLUDE, BUT ARE NOT LIMITED TO, THOSE GENERATED IN: OIL/WATER/SOLIDS SEPARATORS; TANKS AND IMPOUNDMENTS; DITCHES AND OTHER CONVEYANCES; SUMPS; AND STORMWATER UNITS RECEIVING DRY WEATHER FLOW. SLUDGE GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM OTHER PROCESS OR OILY COOLING WATERS, SLUDGES GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: F038
- . Waste name: PETROLEUM REFINERY SECONDARY (EMULSIFIED) OIL/WATER/SOLIDS SEPARATION SLUDGE-ANY SLUDGE AND/OR FLOAT GENERATED FROM THE PHYSICAL AND/OR CHEMICAL SEPARATION OF OIL/WATER/SOLIDS IN PROCESS WASTEWATERS AND OILY COOLING WASTEWATERS FROM PETROLEUM REFINERIES. SUCH WASTES INCLUDE, BUT ARE NOT LIMITED TO, ALL SLUDGES AND FLOATS GENERATED IN: INDUCED AIR FLOTATION (IAF) UNITS, TANKS AND IMPOUNDMENTS, AND ALL SLUDGES GENERATED IN DAF UNITS. SLUDGES GENERATED IN STORMWATER UNITS THAT DO NOT RECEIVE DRY WEATHER FLOW, SLUDGES GENERATED FROM NON-CONTACT ONCE-THROUGH COOLING WATERS SEGREGATED FOR TREATMENT FROM

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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OTHER PROCESS OR OILY COOLING WATERS, SLUDGES AND FLOATS GENERATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS AS DEFINED IN SECTION 261.31(B)(2) (INCLUDING SLUDGES AND FLOATS GENERATED IN ONE OR MORE ADDITIONAL UNITS AFTER WASTEWATERS HAVE BEEN TREATED IN AGGRESSIVE BIOLOGICAL TREATMENT UNITS) AND F037, K048, AND K051 WASTES ARE NOT INCLUDED IN THIS LISTING.

- . Waste code: K050
- . Waste name: HEAT EXCHANGER BUNDLE CLEANING SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K051
- . Waste name: API SEPARATOR SLUDGE FROM THE PETROLEUM REFINING INDUSTRY

- . Waste code: K052
- . Waste name: TANK BOTTOMS (LEADED) FROM THE PETROLEUM REFINING INDUSTRY

Date form received by agency: 09/01/1996
Site name: EQUILON ENTERPRISES LLC
Classification: Large Quantity Generator

Date form received by agency: 05/17/1996
Site name: TEXACO LOS ANGELES PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/29/1992
Site name: TEXACO REFINING & MARKETING
Classification: Large Quantity Generator

Date form received by agency: 04/17/1990
Site name: TEXACO REFINING AND MARKETING INC
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 787561

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 4212

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 855

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 855

Waste code: D008
Waste name: LEAD
Amount (Lbs): 20812

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 1

Waste code: D011
Waste name: SILVER
Amount (Lbs): 855

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 274875

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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.
Amount (Lbs): 2800

Waste code: K170
Waste name: Clarified slurry oil storage tank sediment and/or in-line filter/separation solids from petroleum refining operations.
Amount (Lbs): 171340

Waste code: K171
Waste name: Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (excludes inert support media)
Amount (Lbs): 784106

Corrective Action Summary:

Event date: 02/25/1985
Event: STABILIZATION/INTERIM MEASURES DECISION-PRIMARY MEAS IS SOURCE REMOVL &/OR TRT

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Event date:	02/25/1985
Event:	INVESTIGATION IMPOSITION
Event date:	09/30/1985
Event:	STABILIZATION CONSTRUCTION COMPLETED
Event date:	05/09/1989
Event:	NCAPS RANKING/PRIORITY
Event date:	05/09/1989
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	05/09/1989
Event:	RFA COMPLETED-ASSESSMENT WAS A PA-PLUS
Event date:	05/09/1989
Event:	RFA COMPLETED
Event date:	05/09/1989
Event:	PA OR CERCLA INSPECTION
Event date:	05/09/1989
Event:	LEAD AGENCY DETERMINATION
Event date:	10/31/1991
Event:	LETTER TO AGCY/HANDLER
Event date:	09/19/1994
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	09/19/1994
Event:	STABILIZATION MEASURES EVALUATION-FACILITY IS AMENABLE TO STABILIZATION
Event date:	10/04/1994
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	10/30/1997
Event:	REFERRED TO A NON-RCRA AUTHORITY
Event date:	10/30/1997
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	10/30/1997
Event:	RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	03/09/2001
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION
Event date:	03/09/2001
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

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Event date: 03/09/2001
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/09/2001
Event: RELEASE TO GW CONTROLLED DETERMINATION-FACILITY DOES NOT MEET DEFINITION

Event date: 03/28/2002
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: 03/28/2002
Event: HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE

Event date: Not reported
Event: REEVALUATE IN FY

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: TSD - Releases from SWMUs
Date violation determined: 10/12/2017
Date achieved compliance: 10/17/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/12/2017
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: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 03/21/2017
Date achieved compliance: 05/17/2017
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/23/2017
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: Not reported
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 04/15/2014
Date achieved compliance: 05/07/2014
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/16/2014
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

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Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 04/15/2014
Date achieved compliance: 05/07/2014
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/16/2014
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/30/2008
Date achieved compliance: 07/07/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/04/2008
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: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 04/22/2008
Date achieved compliance: 04/28/2008
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 09/10/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 04/22/2008
Date achieved compliance: 04/28/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 04/22/2008
Date achieved compliance: 04/28/2008
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 11/12/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 21000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/22/2006
Date achieved compliance: 05/16/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/05/2006
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/22/2006
Date achieved compliance: 04/13/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/05/2006
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: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/16/2004
Date achieved compliance: 04/13/2010
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

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Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General Facility Standards
Date violation determined: 12/29/1999
Date achieved compliance: 12/31/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/29/1999
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: Not reported
Area of violation: Generators - General
Date violation determined: 12/29/1999
Date achieved compliance: 12/31/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/29/1999
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: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 12/29/1999
Date achieved compliance: 12/31/1999
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/29/1999
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 - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 06/14/1994
Date achieved compliance: 12/28/1999
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

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Paid penalty amount: Not reported

Regulation violated: F - 262.30-34.C
Area of violation: Generators - General
Date violation determined: 05/14/1993
Date achieved compliance: 08/05/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/14/1993
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 - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 05/14/1993
Date achieved compliance: 08/05/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/14/1993
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: 05/14/1993
Date achieved compliance: 08/05/1993
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 07/08/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 200
Final penalty amount: 200
Paid penalty amount: 200

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/19/1990
Date achieved compliance: 05/31/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/1990
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

Map ID
Direction
Distance
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MAP FINDINGS

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/19/1990
Date achieved compliance: 05/31/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/1990
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 - 268 ALL
Area of violation: LDR - General
Date violation determined: 08/24/1988
Date achieved compliance: 08/05/1993
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
Area of violation: TSD - General
Date violation determined: 08/24/1988
Date achieved compliance: 03/19/1990
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 - 268.7
Area of violation: LDR - General
Date violation determined: 08/24/1988
Date achieved compliance: 08/05/1993
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: FR - 264.110-120.G

Map ID
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MAP FINDINGS

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/01/1987
Date achieved compliance: 12/28/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/14/1987
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: 12/01/1987
Date achieved compliance: 12/28/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/14/1987
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: 10/17/2017
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/12/2017
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/12/2017
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - Releases from SWMUs
Date achieved compliance: 10/17/2017
Evaluation lead agency: State

Evaluation date: 04/04/2017
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/21/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 05/17/2017
Evaluation lead agency: State

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EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Evaluation date: 05/08/2014
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/15/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - General
Date achieved compliance: 05/07/2014
Evaluation lead agency: State

Evaluation date: 04/15/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 05/07/2014
Evaluation lead agency: State

Evaluation date: 10/24/2011
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/21/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/30/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 07/07/2008
Evaluation lead agency: State

Evaluation date: 04/28/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/22/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 04/28/2008
Evaluation lead agency: State

Evaluation date: 04/22/2008
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/22/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Date achieved compliance: 05/16/2006
Evaluation lead agency: State

Evaluation date: 03/22/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/13/2010
Evaluation lead agency: State

Evaluation date: 10/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 09/27/2005
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/16/2004
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/13/2010
Evaluation lead agency: State

Evaluation date: 04/28/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/25/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/29/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 12/31/1999
Evaluation lead agency: State

Evaluation date: 12/29/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General Facility Standards
Date achieved compliance: 12/31/1999
Evaluation lead agency: State

Map ID
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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Evaluation date: 12/29/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/31/1999
Evaluation lead agency: State

Evaluation date: 06/14/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/28/1999
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/10/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/14/1993
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/05/1993
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/05/1993
Evaluation lead agency: State

Evaluation date: 03/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 08/05/1993
Evaluation lead agency: State

Evaluation date: 03/20/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/19/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/31/1990
Evaluation lead agency: State

Evaluation date: 08/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General

Map ID
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Date achieved compliance: 08/05/1993
Evaluation lead agency: State

Evaluation date: 08/24/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/19/1990
Evaluation lead agency: State

Evaluation date: 05/06/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/01/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 12/28/1987
Evaluation lead agency: State

Evaluation date: 12/01/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/28/1987
Evaluation lead agency: State

US FIN ASSUR:

EPA ID: CAD041520644
County: Not reported
Mechanism type: L
Mechanism Type Description: LETTER OF CREDIT
Cost estimate: 1672011
Face value: 1672011
Effective date: 2010-08-19 00:00:00
Provider: CITIBANK
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: C
Mechanism Type Description: CORPORATE GUARANTEE
Cost estimate: 6000000
Face value: 10076000
Effective date: 2017-03-24 00:00:00
Provider: TESORO CORPORATION
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: F
Mechanism Type Description: FINANCIAL TEST
Cost estimate: 1634847
Face value: 9717165
Effective date: 2009-03-27 00:00:00
Provider: TESORO REFINING
EPA region: 9

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

EPA ID: CAD041520644
County: Not reported
Mechanism type: L
Mechanism Type Description: LETTER OF CREDIT
Cost estimate: 1672011
Face value: 1482000
Effective date: 2011-03-01 00:00:00
Provider: JP MORGAN CHASE
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: C
Mechanism Type Description: CORPORATE GUARANTEE
Cost estimate: 1481359
Face value: 10076000
Effective date: 2017-03-24 00:00:00
Provider: TESORO CORPORATION
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: C
Mechanism Type Description: CORPORATE GUARANTEE
Cost estimate: 2000000
Face value: 10076000
Effective date: 2017-03-24 00:00:00
Provider: TESORO CORPORATION
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: F
Mechanism Type Description: FINANCIAL TEST
Cost estimate: 1634847
Face value: 9717165
Effective date: 2009-03-27 00:00:00
Provider: TESORO REFINING
EPA region: 9

EPA ID: CAD041520644
County: Not reported
Mechanism type: I
Mechanism Type Description: INSURANCE
Cost estimate: 8000000
Face value: 8000000
Effective date: 2010-08-25 00:00:00
Provider: NATIONAL UNION FIRE INS. CO. (CHARTIS)
EPA region: 9

2020 COR ACTION:

EPA ID: CAD041520644
Region: 9
Action: Not reported

ICIS:

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Enforcement Action ID: CASCAA200130414
FRS ID: 110038157151
Action Name: NOVs P45978, P45980 MULTIPLE RULES-SEE COMMENT #6
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200130413
FRS ID: 110038157151
Action Name: NOV P45977 RULEs 1176(e)(1), 1173
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200124342
FRS ID: 110038157151
Action Name: NOV P58230 RULE 1176(e)(1)
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300245
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300245
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300244
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300244
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300196
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300196
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300195
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300195
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300186
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300186
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300185
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300185
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300178
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300178
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300177
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300177
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300174
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300174
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES

Map ID
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300173
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300173
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300161
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300161
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300160
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300160
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY

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EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Enforcement Action Type: WILMINGTON, CA 90744
Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300151
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300151
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300150
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300150
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300147
FRS ID: 110038157151

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Action Name: TESORO REFINING AND MARKETING CO 060370001300147
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300146
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300146
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300143
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300143
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Enforcement Action ID: CASCAA0000060370001300142
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300142
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300139
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300139
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300138
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300138
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300135
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300135
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300134
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300134
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300130
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300130
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300129
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300129
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300126
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300126
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300125
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300125
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300119
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300119
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300118
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300118
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300114
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300114
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300113
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300113
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300111
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300111
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300110
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300110
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

WILMINGTON, CA 90744
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300107
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300107
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300105
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300105
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300101
FRS ID: 110038157151

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Action Name: TESORO REFINING AND MARKETING CO 060370001300101
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300100
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300100
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300096
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300096
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Enforcement Action ID: CASCAA0000060370001300095
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300095
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300091
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300091
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300088
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300088
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300085
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300085
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300078
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300078
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300077
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300077
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956

Map ID
Direction
Distance
Elevation

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300073
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300073
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300072
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300072
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300067
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300067
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAO

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA0000060370001300066
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300066
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: 09-2001-A018
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300132
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Judicial
EA Type Code: CIV
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: 09-1974-A005
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300002
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
Facility County: LOS ANGELES

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113A
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

Enforcement Action ID: 09-1974-A004
FRS ID: 110038157151
Action Name: TESORO REFINING AND MARKETING CO 060370001300001
Facility Name: TESORO REFINING AND MARKETING CO
Facility Address: 2101 E PACIFIC COAST HWY
WILMINGTON, CA 90744

Enforcement Action Type: CAA 113A Admin Compliance Order (Non-Penalty)
Facility County: LOS ANGELES

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 113A
Facility SIC Code: 2911
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 33.7956
Longitude in Decimal Degrees: -118.2331
Permit Type Desc: Not reported
Program System Acronym: CASCA0000603700013
Facility NAICS Code: 324110
Tribal Land Code: Not reported

US AIRS (AFS):

Envid: 1000144764
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
D and B Number: Not reported
Facility Site Name: TESORO REFINING AND MARKETING CO
Primary SIC Code: 2911
NAICS Code: 324110
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: ADDRESSED HPV

US AIRS (AFS):

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: Not reported
Activity Status Date: 2001-08-22 00:00:00

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2005-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2013-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2013-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2013-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2013-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2013-04-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2014-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2014-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2014-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
Activity Date: 2001-08-22 00:00:00
Activity Status Date: 2001-08-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Judicial
Activity Status: Closed

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1983-05-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1983-10-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1984-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1985-01-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1985-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1986-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1987-01-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1987-04-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1987-12-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards
Activity Date:	1988-04-12 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	New Source Performance Standards

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Activity Date: 1989-06-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1990-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1991-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1993-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2005-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2013-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2013-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2013-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2013-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2013-04-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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1000144764

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 2014-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: New Source Performance Standards
Activity Date: 1996-08-16 00:00:00
Activity Status Date: 1996-08-16 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2007-12-04 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Addressed

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2008-06-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Addressed

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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1000144764

Activity Date:	Not reported
Activity Status Date:	1993-03-30 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	1994-05-24 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	1994-05-26 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	1995-02-14 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	1995-10-26 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1996-02-21 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1996-03-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1997-08-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-01-28 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-06-10 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2001-02-09 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2002-07-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-03-07 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-07-18 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2006-04-26 00:00:00
Activity Group: Case File

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	2007-09-11 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	2009-06-19 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	Not reported
Activity Status Date:	2013-01-04 00:00:00
Activity Group:	Case File
Activity Type:	Case File
Activity Status:	Resolved
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1975-05-06 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 1975-10-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1976-10-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1978-03-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-03-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1979-12-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-06-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1980-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-03-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-06-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1981-12-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1982-06-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-02-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-05-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1983-07-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-05-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 1985-03-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-03-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-06-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-12-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-04-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-06-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-05-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-05-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-06-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-06-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-08-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 1999-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-06-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-03-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-03-16 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-03-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-05-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2010-09-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2010-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-11-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-01-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

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Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-01-14 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-01-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-01-18 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-02-22 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2012-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-05-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-04-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-05-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-07-08 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-07-09 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1974-02-22 00:00:00
Activity Status Date:	1974-02-22 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1974-05-08 00:00:00
Activity Status Date:	1974-05-08 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 1993-03-30 00:00:00
Activity Status Date: 1993-03-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-24 00:00:00
Activity Status Date: 1994-05-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-26 00:00:00
Activity Status Date: 1994-05-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-02-01 00:00:00
Activity Status Date: 1995-02-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-10-26 00:00:00
Activity Status Date: 1995-10-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-21 00:00:00
Activity Status Date: 1996-02-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-03-01 00:00:00
Activity Status Date: 1996-03-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-03-20 00:00:00
Activity Status Date: 1996-03-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-01-21 00:00:00
Activity Status Date: 1998-01-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-01-28 00:00:00
Activity Status Date: 1998-01-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-11-08 00:00:00
Activity Status Date: 2000-11-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-07-24 00:00:00
Activity Status Date: 2001-07-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-08-30 00:00:00
Activity Status Date: 2002-08-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-01 00:00:00
Activity Status Date: 2003-04-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-12 00:00:00
Activity Status Date: 2005-08-12 00:00:00
Activity Group: Enforcement Action

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2007-06-07 00:00:00
Activity Status Date:	2007-06-07 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2007-12-04 00:00:00
Activity Status Date:	2007-12-04 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2008-06-27 00:00:00
Activity Status Date:	2008-06-27 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2009-01-23 00:00:00
Activity Status Date:	2009-01-23 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2012-07-19 00:00:00
Activity Status Date: 2012-07-19 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-24 00:00:00
Activity Status Date: 1994-05-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-05-26 00:00:00
Activity Status Date: 1994-05-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-09-21 00:00:00
Activity Status Date: 1994-09-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-02-22 00:00:00
Activity Status Date: 1996-02-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-08-16 00:00:00
Activity Status Date: 1996-08-16 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-06-18 00:00:00
Activity Status Date: 1997-06-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-01 00:00:00
Activity Status Date: 1997-10-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-05-18 00:00:00
Activity Status Date: 2000-05-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-02-21 00:00:00
Activity Status Date: 2001-02-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-04-02 00:00:00
Activity Status Date: 2002-04-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-11-14 00:00:00
Activity Status Date: 2002-11-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-12-15 00:00:00
Activity Status Date: 2004-12-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-02-28 00:00:00
Activity Status Date: 2007-02-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-10-18 00:00:00
Activity Status Date: 2007-10-18 00:00:00
Activity Group: Enforcement Action

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-03-11 00:00:00
Activity Status Date: 2008-03-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-15 00:00:00
Activity Status Date: 2008-10-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-03-06 00:00:00
Activity Status Date: 2012-03-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2007-12-04 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Addressed

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: Not reported
Activity Status Date: 2008-06-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Addressed

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-06-25 19:33:45
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-11-05 18:58:47
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-11-05 19:05:55
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 1997-03-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2002-01-23 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-04-07 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-05-08 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2003-11-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2006-04-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2007-09-11 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2009-06-19 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2013-01-04 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-26 00:00:00
Activity Status Date: 2016-05-11 11:25:36
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	1999-02-04 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2001-06-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2005-03-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2005-07-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2005-09-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-09-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-07-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-05-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-05-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2010-09-29 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2010-09-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2010-11-19 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-01-19 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

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EDR ID Number
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TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2011-02-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-04-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-01-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-02-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-04-30 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-05-15 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-09-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700013
Facility Registry ID:	110038157151
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-03-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-04-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-05-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-01-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1997-03-12 00:00:00
Activity Status Date: 1997-03-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-10-16 00:00:00
Activity Status Date: 2001-10-16 00:00:00
Activity Group: Enforcement Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-20 00:00:00
Activity Status Date: 2002-12-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-05 00:00:00
Activity Status Date: 2003-03-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-29 00:00:00
Activity Status Date: 2003-08-29 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-12 00:00:00
Activity Status Date: 2005-08-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Date: 2007-06-07 00:00:00
Activity Status Date: 2007-06-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-12-04 00:00:00
Activity Status Date: 2007-12-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-06-27 00:00:00
Activity Status Date: 2008-06-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-01-23 00:00:00
Activity Status Date: 2009-01-23 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-07-19 00:00:00
Activity Status Date: 2012-07-19 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1996-08-16 00:00:00
Activity Status Date: 1996-08-16 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-10-02 00:00:00
Activity Status Date: 2001-10-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-07-18 00:00:00
Activity Status Date: 2002-07-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-11-14 00:00:00
Activity Status Date: 2002-11-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-18 00:00:00
Activity Status Date: 2003-03-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-12-15 00:00:00
Activity Status Date: 2004-12-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-02-28 00:00:00
Activity Status Date: 2007-02-28 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-10-18 00:00:00
Activity Status Date: 2007-10-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-03-11 00:00:00
Activity Status Date: 2008-03-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-15 00:00:00
Activity Status Date: 2008-10-15 00:00:00
Activity Group: Enforcement Action

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-03-06 00:00:00
Activity Status Date: 2012-03-06 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-03-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-10-30 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700013
Facility Registry ID: 110038157151
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-11-02 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

HWP:
EPA Id: CAD041520644
Cleanup Status: POST CLOSURE PERMIT
Latitude: 33.79294
Longitude: -118.2349

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Facility Type: Post-Closure Permitted
Facility Size: Large Postclosure
Team: PHILLIP BLUM
Supervisor: MIKE ESHAGHIAN
Site Code: 400387
Assembly District: 72, 64
Senate District: 35
Public Information Officer: Not reported
Public Information Officer: Not reported

Closure:

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - 2ND NOTICE OF DEFICIENCY ISSUED
Actual Date: 07/19/2007

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1
Event Description: Closure - ISSUE CLOSURE VERIFICATION
Actual Date: 11/07/1989

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 11/30/2010

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - FINAL PART A & PART B RECEIVED
Actual Date: 07/30/2010

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - APPLICATION PART A RECEIVED
Actual Date: 10/05/1998

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: CONTAIN1
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 03/23/1989

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - DRAFT POST-CLOSURE PERMIT
Actual Date: 11/30/2010

EPA Id: CAD041520644
Facility Type: Post-Closure Permitted
Unit Names: SURFSTR1- ponds 8 & 9
Event Description: New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EFFECTIVE)
Actual Date: 03/17/2011

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date:	01/30/2007
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	CONTAIN1
Event Description:	Closure - CLOSURE NOTICE RECEIVED
Actual Date:	12/02/1987
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - CEQA DETERMINATION
Actual Date:	02/15/2011
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - 3RD NOTICE OF DEFICIENCY ISSUED
Actual Date:	06/05/2008
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	CONTAIN1
Event Description:	Closure - PUBLIC COMMENT (BEGIN)
Actual Date:	03/23/1989
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - PUBLIC COMMENT (END)
Actual Date:	01/28/2011
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT (EXPIRES)
Actual Date:	03/16/2021
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - DISCLOSURE (CLEARED)
Actual Date:	08/18/2008
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	CONTAIN1
Event Description:	Closure - CLOSURE PLAN RECEIVED
Actual Date:	12/02/1987
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Event Description:	New Post-Closure Permit - PUBLIC COMMENT (PUBLIC MEETING)
Actual Date:	01/20/2011
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - APPLICATION PART B RECEIVED
Actual Date:	10/05/1998
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - TECHNICAL COMPLETE LETTER
Actual Date:	11/19/2010
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	SURFSTR1- ponds 8 & 9
Event Description:	New Post-Closure Permit - FINAL POST-CLOSURE PERMIT
Actual Date:	02/15/2011
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	CONTAIN1
Event Description:	Closure - CLOSURE PLAN APPROVED
Actual Date:	06/30/1989
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Unit Names:	CONTAIN1
Event Description:	Closure - RECEIVE CLOSURE CERTIFICATION
Actual Date:	04/19/1989
Alias:	
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Alias Type:	FRS
Alias:	110000746630
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Alias Type:	Envirostor ID Number
Alias:	19290032
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Alias Type:	Project Code (Site Code)
Alias:	400387
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Alias Type:	APN
Alias:	7315017005
EPA Id:	CAD041520644
Facility Type:	Post-Closure Permitted
Alias Type:	Alternate Name

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Alias: TEXACO REFINING AND MARKETING INC

Maintenance:

EPA Id: CAD041520644
Title: Second Quarter 2014 Groundwater Monitoring/Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 08/26/2014

EPA Id: CAD041520644
Title: Tesoro Third Quarter 2014 Groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 11/18/2014

EPA Id: CAD041520644
Title: First Quarter 2014 Groundwater Monitoring/Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 04/30/2014

EPA Id: CAD041520644
Title: 2013 Annual RCRA Groundwater Quality Assessment Report
Document Type: Monitoring Report - Groundwater
Received Date: 03/11/2014

EPA Id: CAD041520644
Title: Second Quarter 2015 Groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 08/13/2015

EPA Id: CAD041520644
Title: Annual RCRA Groundwater Quality Assessment Report for Former Ponds 8 and 9
Document Type: Monitoring Report - Groundwater
Received Date: 03/29/2016

EPA Id: CAD041520644
Title: Third Quarter 2015 RCRA Groundwater Monitoring and Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 11/23/2015

EPA Id: CAD041520644
Title: Annual RCRA Groundwater Quality Assessment Report for Former Ponds 8 and 9
Document Type: Monitoring Report - Groundwater
Received Date: 02/16/2017

EPA Id: CAD041520644
Title: Annual RCRA Groundwater Quality Assessment Report for Former Ponds 8 and 9
Document Type: Monitoring Report - Groundwater
Received Date: 02/22/2018

EPA Id: CAD041520644
Title: Second Quarter 2016 groundwater monitoring and Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 08/25/2016

EPA Id: CAD041520644
Title: Fourth Quarter 2016 groundwater Monitoring Report
Document Type: Monitoring Report - Groundwater
Received Date: 02/16/2017

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

EPA Id: CAD041520644
Title: Second Quarter 2017 Groundwater Monitoring Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 08/14/2017

EPA Id: CAD041520644
Title: Third Quarter 2017 Groundwater Monitoring/Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 12/27/2017

EPA Id: CAD041520644
Title: First Quarter 2018 Groundwater Monitoring/Sampling Report
Document Type: Monitoring Report - Groundwater
Received Date: 05/09/2018

EPA Id: CAD041520644
Title: Recorded Land Use Covenant
Document Type: Deed Restriction / LUC Issued
Received Date: 12/15/2012

EPA Id: CAD041520644
Title: Draft Land Use Covenant
Document Type: Deed Restriction / LUC Issued
Received Date: 12/05/2012

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 05/24/2011

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 08/01/2011

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 02/07/2012

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 09/06/2012

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 02/12/2013

EPA Id: CAD041520644
Title: Groundwater Monitoring
Document Type: Monitoring Report - Groundwater
Received Date: 05/09/2013

EPA Id: CAD041520644
Title: Groundwater Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

Document Type:	Monitoring Report - Groundwater
Received Date:	10/31/2013
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	01/14/2014
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	02/25/2015
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	06/02/2015
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	01/21/2016
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	05/05/2016
EPA Id:	CAD041520644
Title:	Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	11/14/2016
EPA Id:	CAD041520644
Title:	First Quarter 2017 Groundwater Monitoring
Document Type:	Monitoring Report - Groundwater
Received Date:	06/19/2017
EPA Id:	CAD041520644
Title:	Groundwater Monitoring 4th Quarter 2017
Document Type:	Monitoring Report - Groundwater
Received Date:	02/22/2018
EPA Id:	CAD041520644
Title:	Quarterly Progress Report
Document Type:	Monitoring Report - Groundwater
Received Date:	06/02/2011
EPA Id:	CAD041520644
Title:	Quarterly Groundwater Monitoring Report First Quarter 2012
Document Type:	Monitoring Report - Groundwater
Received Date:	06/25/2012
EPA Id:	CAD041520644
Title:	Third Quarter 2012 Groundwater Monitoring Report
Document Type:	Monitoring Report - Groundwater
Received Date:	11/14/2012

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TESORO REFINING & MARKETING COMPANY LLC -- LA REFINERY (Continued)

1000144764

EPA Id: CAD041520644
 Title: Second Quarter 2013 Groundwater Monitoring/Sampling Report dated June 24, 2013
 Document Type: Monitoring Report - Groundwater
 Received Date: 08/13/2013

R96
SSW
1/2-1
0.893 mi.
4713 ft.

Relative:
Lower

Actual:
13 ft.

TEXACO REFINING AND MARKETING INC
2101 EAST PACIFIC COAST HIGHWAY
WILMINGTON, CA 90744

Site 2 of 2 in cluster R

ENVIROSTOR S105672748
CPS-SLIC N/A
HIST UST
DEED
CHMIRS
ICE
NPDES
CIWQS

ENVIROSTOR:

Facility ID: 19290032
 Status: Refer: RCRA
 Status Date: 08/25/1995
 Site Code: 400387
 Site Type: Historical
 Site Type Detailed: * Historical
 Acres: Not reported
 NPL: NO
 Regulatory Agencies: NONE SPECIFIED
 Lead Agency: NONE SPECIFIED
 Program Manager: Not reported
 Supervisor: * Mmonroy
 Division Branch: Cleanup Cypress
 Assembly: 64
 Senate: 35
 Special Program: * Site Char & Assess Grant (CERCLA 104)
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: Not reported
 Latitude: 33.79138
 Longitude: -118.2361
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED
 Potential COC: * OIL/WATER SEPARATION SLUDGE * OTHER STILL BOTTOM WASTE *
 OXYGENATED SOLVENTS * CONTAMINATED SOIL Asbestos Containing Materials
 (ACM * Sludge - Sewage * TANK BOTTOM WASTES * UNSPECIFIED ACID
 SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * UNSPECIFIED AQUEOUS
 SOLUTION * UNSPECIFIED SLUDGE WASTE * WASTE OIL & MIXED OIL * OTHER
 INORGANIC SOLID WASTE * OTHER SPENT CATALYST * UNSPECIFIED ORGANIC
 LIQUID MIXTURE * FCC WASTE * LIME SLUDGE * TETRAETHYL LEAD SLUDGE
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: CALIF PETROLEUM CORP(1925-1928)
 Alias Type: Alternate Name
 Alias Name: EQUILON ENTERPRISES LLC
 Alias Type: Alternate Name
 Alias Name: PETROLEUM MIDWAY CORP(1922-1925)
 Alias Type: Alternate Name
 Alias Name: CAD041520644
 Alias Type: EPA Identification Number
 Alias Name: 110000746630
 Alias Type: EPA (FRS #)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Alias Name: 400387
Alias Type: Project Code (Site Code)
Alias Name: 19290032
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/02/1995
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

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

Facility ID: 80001368
Status: Refer: RWQCB
Status Date: 01/01/2008
Site Code: 400387
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: RWQCB
Lead Agency: WQC
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Chatsworth
Assembly: 72
Senate: 35
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.79294
Longitude: -118.2349
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: TEXACO REFINING AND MARKETING INC
Alias Type: Alternate Name
Alias Name: CAD041520644
Alias Type: EPA Identification Number
Alias Name: 110000746630
Alias Type: EPA (FRS #)
Alias Name: 400387
Alias Type: Project Code (Site Code)
Alias Name: 19290032
Alias Type: Envirostor ID Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Alias Name: 80001368
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: Consent Agreement
Completed Date: 02/25/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 03/28/2002
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: Interim Measures Implementation Report
Completed Date: 09/30/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/09/1989
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: GROUNDWATER
Completed Document Type: Interim Measures Workplan
Completed Date: 02/25/1985
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 05/09/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 03/09/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 09/19/1994
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Groundwater Migration Controlled
Future Due Date: 2020
Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Constructed
Future Due Date: 2020
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

CPS-SLIC:

Region: STATE
Facility Status: **Open - Remediation**
Status Date: 06/30/2002
Global Id: SL372432436
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.795941
Longitude: -118.234816
Case Type: Cleanup Program Site
Case Worker: JYL
Local Agency: Not reported
RB Case Number: 0230
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: The Tesoro Los Angeles Refinery (LAR) located at 2101 E. Pacific Coast Highway in Wilmington, California (Site). The Site is an active petroleum refinery operated by Tesoro and covers approximately 300 acres. The refining operations include gasoline, diesel fuel, jet fuel, fuel oil, and petroleum coke. Environmental investigation activities at the Site began in the early 1980s. Groundwater monitoring/sampling commenced in 1985. These investigations documented soil and groundwater impacts by petroleum hydrocarbons and other chemicals of concern (COCs), and defined the extent and magnitude of Light Non-Aqueous Phase Liquid (LNAPL) plumes in the Water Table Aquifer at the Site. Dissolved phase impacts have also been documented in deeper aquifers on and off site. COCs sourced from LAR are MTBE, TBA, and benzene and have migrated off site beyond Site boundaries into some adjacent areas. The cleanup is conducted under Cleanup and Abatement Order No. 88-70 and Order No. 85-17. Discharger participates in the Carson Regional Groundwater Group (CRGG) to assess regional deeper groundwater contamination matter with fuel oxygenates. Currently, there is ongoing LNAPL recovery, a soil vapor extraction system which is being expanded to the Wilmington Sales Terminal to include air sparging wells, and a biosparge boundary control system which is being installed along the western boundary.

[Click here to access the California GeoTracker records for this facility:](#)

Region: STATE
Facility Status: **Open - Assessment & Interim Remedial Action**
Status Date: 02/01/2010

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Global Id: T10000002352
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 33.7971591257589
Longitude: -118.232513666153
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 0230A
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: On January 4, 2010 Tesoro notified California Emergency Management Agency of a naphtha release to ground water from a storage tank (Tank 80214). It is estimated that about 15,200 barrels of naphtha was released. The Regional Board issued a 13267 Order on January 14, 2010 and required Tesoro to complete the assessment and delineation. On April 11, 2011, the Regional Board issued a Cleanup and Abatement Order to direct Tesoro to assess, monitor, and clean up and abate waste release that occurred after May 11, 2007 at the Los Angeles Refinery (LAR). Shell Oil Product US is still responsible to clean up soil and groundwater contamination occurred prior to May 2007 under CAO No. 88-70.

Click here to access the California GeoTracker records for this facility:

HIST UST:

File Number: 00028A2F
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028A2F.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:

DEED:

Envirostor ID: CAD041520644
Area: Not reported
Sub Area: Not reported
Site Type: POST CLOSURE PERMIT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Status: POST CLOSURE PERMIT
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 12/05/2012
File Name: Envirostor Land Use Restrictions

Envirostor ID: CAD041520644
Area: Not reported
Sub Area: Not reported
Site Type: POST CLOSURE PERMIT
Status: POST CLOSURE PERMIT
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 12/15/2012
File Name: Envirostor Land Use Restrictions

CHMIRS:

OES Incident Number: 5-0956
OES notification: 02/11/2005
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
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Not reported
Waterway: Not reported
Spill Site: Not reported
Cleanup By: None
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Not reported
Other: Not reported
Date/Time: Not reported
Year: 2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Agency:	Shell Oil
Incident Date:	2/11/200512:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	No
Site Type:	Refinery
E Date:	Not reported
Substance:	Nitrogen Oxide
Gallons:	0.000000
Pounds:	10
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:	The release is from a yydro cracking unite coming on line.
OES Incident Number:	10-1884
OES notification:	03/18/2010
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1703
Year:	2010
Agency:	Tesoro Refinery
Incident Date:	3/18/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	SOX
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Two compressors, C94 & C95, failed causing a flaring incident.
OES Incident Number:	17-1615
OES notification:	02/22/2017
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

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
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:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Lbs.
Other:	Not reported
Date/Time:	445
Year:	2017
Agency:	Tesoro Refinery
Incident Date:	02/22/2017
Admin Agency:	Los Angeles City Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	SO2
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	RP states: Compressors for process unit shut down resulting in the release of more than 500lbs of SO2 to the atmosphere. The cause of the shut down is under investigation. The flaring event is ongoing and there is not currently an estimated stop time. Operations personnel are working to

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TEXACO REFINING AND MARKETING INC (Continued)

S105672748

get the compressors running to stop the release.
No impact to waterways.

OES Incident Number:	17-3060
OES notification:	04/26/2017
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
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:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Lbs.
Other:	Not reported
Date/Time:	1115
Year:	2017
Agency:	Tesoro Refinery
Incident Date:	04/26/2017
Admin Agency:	San Bernardino County Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	SO2
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported

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TEXACO REFINING AND MARKETING INC (Continued)

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Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Caller stated that they have a release of 500 Lbs. of SO2 due to a break down resulting in the release venting into the atmosphere and is unrecoverable, release is ongoing and repairs are underway, caller stated that the only impact is the flaring. Facility is still in operation at this time.
OES Incident Number:	1-3386
OES notification:	06/06/2011
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
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:	Refinery
Cleanup By:	N/A
Containment:	Not reported
What Happened:	Not reported

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Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	1255
Year:	2011
Agency:	Tesoro Refinery
Incident Date:	6/6/2011
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Sulfur Dioxide
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	A power disturbance caused some of the process units to shut down on an unscheduled basis, causing gases to vent to the flare.
OES Incident Number:	10-1672
OES notification:	03/09/2010
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

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Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
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:	Refinery
Cleanup By:	Unrecoverable
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Lbs.
Other:	Not reported
Date/Time:	2130
Year:	2010
Agency:	Tesoro Refining and Marketing
Incident Date:	3/9/2010
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	No
Site Type:	Not reported
E Date:	Not reported
Substance:	SOX/NOX
Quantity Released:	500
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	A flare event is in progress due to a total power outage to the refinery.
OES Incident Number:	4-0498
OES notification:	01/27/2014
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

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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
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:	Refinery
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	Lbs.
Other:	Not reported
Date/Time:	415
Year:	2014
Agency:	Tesoro Los Angeles Refinery
Incident Date:	1/27/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	SO2
Quantity Released:	811
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Human Error
Fatals:	No
Comments:	Not reported
Description:	Per the caller a process unit was upset causing a

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flaring event

OES Incident Number: 5-4855
OES notification: 08/19/2005
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
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported
Waterway Involved: Not reported
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: 2005
Agency: Shell Oil Refinery
Incident Date: 8/19/200512:00:00 AM
Admin Agency: L. A. County Fire Prevention
Amount: Not reported
Contained: Yes
Site Type: Refinery
E Date: Not reported
Substance: NOX
Gallons: 0.000000
Pounds: 10
Unknown: 0
Substance #2: Not reported
Substance #3: Not reported
Evacuations: 0
Number of Injuries: 0

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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
Fataals: Not reported
Comments: Not reported
Description: Caller advised a process unit upset causing excess flaring

OES Incident Number: 12-5338
OES notification: 09/05/2012
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
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: Refinery
Cleanup By: Reporting Party
Containment: Not reported
What Happened: Not reported
Type: Not reported
Measure: Bbl.(s)
Other: Not reported
Date/Time: 1515
Year: 2012
Agency: Tesoro LA Refinery
Incident Date: 9/5/2012
Admin Agency: LACoFD Health Haz-Mat

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TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Fuel - Gas Oil
Quantity Released:	1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Underground pipe in the facility has ruptured causing the release, material is flowing directly into the soil, RP is handling containment and clean up.
OES Incident Number:	1-5882
OES notification:	10/04/2011
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
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No

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TEXACO REFINING AND MARKETING INC (Continued)

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Waterway:	Not reported
Spill Site:	Refinery
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	645
Year:	2011
Agency:	Tesoro Refinery
Incident Date:	10/4/2011
Admin Agency:	LACoFD Health Haz-Mat
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Oil - Sludge mixed w/Water
Quantity Released:	8
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#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:	Tank was over-filled causing the release, 4 barrels of oil total, material flowed into soil containment area, RP handled containment, ECI is doing clean up.
OES Incident Number:	08-7826
OES notification:	10/30/2008
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

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TEXACO REFINING AND MARKETING INC (Continued)

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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
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:	Refinery
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Bbl.(s)
Other:	Not reported
Date/Time:	1500
Year:	2008
Agency:	Tesoro Refining
Incident Date:	10/30/2008
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Oil
Quantity Released:	2-3
Unknown:	Not reported
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:	Due to a pin hole leak on a suction line to tank 80058, resulting in a release of oil
OES Incident Number:	1-4583
OES notification:	08/11/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	Not reported
Property Use:	Not reported

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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 Agency 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
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:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Equilon Enterprises
Incident Date:	8/11/2001 12:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Refinery
E Date:	Not reported
Substance:	NO
Pounds:	15
Unknown:	0.000000
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

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TEXACO REFINING AND MARKETING INC (Continued)

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Fatals: Not reported
Comments: Not reported
Description: A recovery compressor was not completely picking up all the gases.

ICE:

Envirostor ID: 3000971
EPA ID: CAD041520644
Site Type: INSPECTION
Facility Status: No Action

Enforcement:

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 09/10/2008

Action Type: Consent Order with Enforcement and Settlement - Federal CA/FO (385)
Action Date: 11/12/2008

Inspection:

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 10/26/2005
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 12/29/1999
Violation Class: Minor
RTC Date: 12/31/1999

Action Type: Financial Records Review - Post-Closure
Action Date: 06/16/2004
Violation Class: Class 2
RTC Date: 04/13/2010

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 04/28/2004
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 10/25/2000
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 06/21/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Financial Records Review - Post-Closure
Action Date: 03/22/2006
Violation Class: Class 2, Minor
RTC Date: 04/13/2010

Action Type: Financial Records Review - Post-Closure
Action Date: 05/30/2008
Violation Class: Minor

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RTC Date: 07/07/2008

Action Type: Financial Records Review - Post-Closure
Action Date: 10/24/2011
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 04/22/2008
Violation Class: Class 1
RTC Date: 04/28/2008

Action Type: Financial Records Review - Post-Closure
Action Date: 09/27/2005
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 04/15/2014
Violation Class: Minor
RTC Date: 05/07/2014

Action Type: Financial Records Review - Post-Closure
Action Date: 05/08/2014
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Post-Closure
Action Date: 03/21/2017
Violation Class: Class 2
RTC Date: 05/17/2017

Action Type: Focused Compliance Inspection - Post-Closure
Action Date: 10/12/2017
Violation Class: Class 1, Class 2
RTC Date: 10/17/2017

Action Type: Financial Records Review - Post-Closure
Action Date: 04/04/2017
Violation Class: No Violations
RTC Date: Not reported

NPDES:

Facility Status: Historical
NPDES Number: CA0003778
Region: 4
Agency Number: 382999
Regulatory Measure ID: 376904
Place ID: 235732
Order Number: R4-2010-0179
WDID: 4B192121001
Regulatory Measure Type: NPDES Permits
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 10/07/2010
Effective Date Of Regulatory Measure: 11/08/2010
Termination Date Of Regulatory Measure: 05/31/2017

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TEXACO REFINING AND MARKETING INC (Continued)

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Expiration Date Of Regulatory Measure: 09/10/2015
Discharge Address: 2101 East Pacific Coast Highway 201
Discharge Name: Andeavor
Discharge City: Wilmington
Discharge State: CA
Discharge Zip: 90744
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:
NPDES Number: CA0003778
Status: Historical
Agency Number: 382999
Region: 4
Regulatory Measure ID: 376904
Order Number: R4-2010-0179
Regulatory Measure Type: NPDES Permits
Place ID: 235732
WDID: 4B192121001
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 10/07/2010
Effective Date Of Regulatory Measure: 11/08/2010
Expiration Date Of Regulatory Measure: 09/10/2015
Termination Date Of Regulatory Measure: 05/31/2017
Discharge Name: Andeavor
Discharge Address: 2101 East Pacific Coast Highway 201
Discharge City: Wilmington
Discharge State: CA
Discharge Zip: 90744
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported
Operator Contact: Not reported
Operator Contact Title: Not reported
Operator Contact Phone: Not reported
Operator Contact Phone Ext: Not reported
Operator Contact Email: Not reported
Operator Type: Not reported
Developer: Not reported
Developer Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

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 Commercial 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:	CA0003778
Status:	Active
Agency Number:	382999
Region:	4
Regulatory Measure ID:	400259
Order Number:	R4-2017-0095
Regulatory Measure Type:	NPDES Permits
Place ID:	235732
WDID:	4B192121001
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	04/06/2017
Effective Date Of Regulatory Measure:	06/01/2017
Expiration Date Of Regulatory Measure:	05/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Andeavor
Discharge Address:	2101 East Pacific Coast Highway 201
Discharge City:	Wilmington
Discharge State:	CA
Discharge Zip:	90744
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial 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

Facility Status:	Active
NPDES Number:	CA0003778
Region:	4
Agency Number:	382999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Regulatory Measure ID: 400259
Place ID: 235732
Order Number: R4-2017-0095
WDID: 4B192121001
Regulatory Measure Type: NPDES Permits
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 04/06/2017
Effective Date Of Regulatory Measure: 06/01/2017
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: 05/31/2022
Discharge Address: 2101 East Pacific Coast Highway 201
Discharge Name: Andeavor
Discharge City: Wilmington
Discharge State: CA
Discharge Zip: 90744
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported
Operator Zip: Not reported

NPDES as of 03/2018:

NPDES Number: CA0003778
Status: Historical
Agency Number: 382999
Region: 4
Regulatory Measure ID: 376904
Order Number: R4-2010-0179
Regulatory Measure Type: NPDES Permits
Place ID: 235732
WDID: 4B192121001
Program Type: NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure: 10/07/2010
Effective Date Of Regulatory Measure: 11/08/2010
Expiration Date Of Regulatory Measure: 09/10/2015
Termination Date Of Regulatory Measure: 05/31/2017
Discharge Name: Andeavor
Discharge Address: 2101 East Pacific Coast Highway 201
Discharge City: Wilmington
Discharge State: CA
Discharge Zip: 90744
Received Date: Not reported
Processed Date: Not reported
Status: Not reported
Status Date: Not reported
Place Size: Not reported
Place Size Unit: Not reported
Contact: Not reported
Contact Title: Not reported
Contact Phone: Not reported
Contact Phone Ext: Not reported
Contact Email: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

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 Commercial 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:	CA0003778
Status:	Active
Agency Number:	382999
Region:	4
Regulatory Measure ID:	400259
Order Number:	R4-2017-0095
Regulatory Measure Type:	NPDES Permits
Place ID:	235732
WDID:	4B192121001
Program Type:	NPDNONMUNIPRCS
Adoption Date Of Regulatory Measure:	04/06/2017
Effective Date Of Regulatory Measure:	06/01/2017
Expiration Date Of Regulatory Measure:	05/31/2022
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Andeavor

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Discharge Address:	2101 East Pacific Coast Highway 201
Discharge City:	Wilmington
Discharge State:	CA
Discharge Zip:	90744
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
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:	4 19I020937
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:	01/07/2016
Operator Name:	Tesoro Refining and Marketing Company LLC
Operator Address:	2101 E Pacific Coast Highway
Operator City:	Wilmington
Operator State:	California
Operator Zip:	90744
NPDES as of 03/2018:	
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	326777
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I020937
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:	06/23/2015
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:	06/20/2007
Status:	Terminated
Status Date:	01/07/2016
Place Size:	308
Place Size Unit:	Acres

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Contact:	Robert Stockdale
Contact Title:	Not reported
Contact Phone:	310-522-6281
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Tesoro Refining and Marketing Company LLC
Operator Address:	2101 E Pacific Coast Highway
Operator City:	Wilmington
Operator State:	California
Operator Zip:	90744
Operator Contact:	Daniel Carlson
Operator Contact Title:	Not reported
Operator Contact Phone:	310-522-6441
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:	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 Commercial 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
Receiving Water Name:	Dominguez Channel
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	2911-Petroleum Refining
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	4
Regulatory Measure ID:	326777
Order Number:	97-03-DWQ

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 191020937
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/20/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	06/23/2015
Discharge Name:	Tesoro Refining and Marketing Company LLC
Discharge Address:	2101 E Pacific Coast Highway
Discharge City:	Wilmington
Discharge State:	California
Discharge Zip:	90744
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commercial 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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TEXACO REFINING AND MARKETING INC (Continued)

S105672748

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

CIWQS:

Agency:	Tesoro Refining and Marketing Company LLC
Agency Address:	2101 E Pacific Coast Highway, Wilmington, CA 90744
Place/Project Type:	Industrial - Petroleum Refining
SIC/NAICS:	2911
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I020937
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/20/2007
Termination Date:	06/23/2015
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.79163
Longitude:	-118.23466

97
NW
1/2-1
0.985 mi.
5200 ft.

223RD ST./DOMINGUEZ CHANNEL
CARSON, CA

Notify 65 **S100178696**
N/A

Relative:
Higher
Actual:
19 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

Count: 14 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CARSON	S111076076	S. C. EVANS	433 WEST 164TH STREET		SWF/LF
CARSON	S111075911	GARDENA VALLEY #1 & #2	415 - 425 WEST TORRANCE BOULEV	90745	SWF/LF
CARSON	S105911484	ACTA SOUTH - PARCEL SE-351	ALAMEDA	90810	CPS-SLIC
CARSON	S105911480	ACTA SOUTH - PARCEL SE-352/353	ALAMEDA	90810	CPS-SLIC
CARSON	S105911479	ACTA SOUTH - PARCEL SE-349	ALAMEDA	90810	CPS-SLIC
CARSON	S105911485	ACTA SOUTH - PARCEL SE-362	ALAMEDA	90745	CPS-SLIC
CARSON	S105911481	ACTA SOUTH - PARCEL SE-358	ALAMEDA	90745	CPS-SLIC
CARSON	S101480710	TED HAMMETT (CARSON)	EAST OF ALAMEDA & NORTH OF SEP	90745	ENVIROSTOR
CARSON	1003878477	TED HAMMETT	E OF ALAMEDA N OF SEPULVEDA	90744	SEMS-ARCHIVE
CARSON	S101295816	GATX TERMIMALS CORP	2000 SEPULVEDA BLVD E	90745	LUST, HIST CORTESE
CARSON	S106386938	SOUTHERN CALIFORNIA GAS COMPANY	SEPULVEDA	90745	CPS-SLIC
WILMINGTON	S103878605	ORYX ENERGY CO.	ALAMEDA	90744	CPS-SLIC
WILMINGTON	S106387111	ACTA SOUTH - PARCEL SE-372	ALAMEDA	90744	CPS-SLIC
WILMINGTON	1015732839	SHELL OIL CO WILMINGTON REF	1622 SEPULVEDA	90744	SEMS-ARCHIVE

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: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/15/2018
	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: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/15/2018
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
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: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
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 known 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: 07/17/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 29

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: 800-424-9346
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/29/2018
	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: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	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: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	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: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: (415) 495-8895
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 06/28/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 10/08/2018
	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: 05/14/2018	Source: Department of the Navy
Date Data Arrived at EDR: 05/18/2018	Telephone: 843-820-7326
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/16/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/26/2018
	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: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional 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.

Date of Government Version: 02/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/27/2018	Telephone: 703-603-0695
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
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 identifies 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: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
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 inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	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: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: see region list
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/24/2018
	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	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	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	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Varies

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	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	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	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 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: Quarterly

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

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Quarterly

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: Semi-Annually

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: Varies

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: Semi-Annually

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: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Semi-Annually

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: Annually

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: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/11/2018	Source: SWRCB
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-341-5851
Date Made Active in Reports: 07/09/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Semi-Annually

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: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-327-7844
Date Made Active in Reports: 07/10/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/24/2018
	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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 06/21/2018
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-9424
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/31/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields 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: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 03/19/2018
Date Data Arrived at EDR: 03/21/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/29/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 48

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
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: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
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: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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 Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/01/2018	Telephone: 202-307-1000
Date Made Active in Reports: 05/11/2018	Last EDR Contact: 05/30/2018
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/10/2018
	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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	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: 07/30/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/31/2018	Telephone: 916-323-3400
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 07/31/2018
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/12/2018
	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: 12/31/2017	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/12/2018	Telephone: 916-255-6504
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 08/17/2018
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Varies

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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Quarterly

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: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/28/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 46

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/19/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
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: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
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: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/05/2018
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: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/09/2018
	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: 04/06/2018	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/24/2018	Telephone: 916-845-8400
Date Made Active in Reports: 06/14/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 51	Next Scheduled EDR Contact: 11/05/2018
	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: 06/11/2018	Source: State Water Quality Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/24/2018
	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: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/24/2018
	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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
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: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
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: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
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: 08/17/2018
Next Scheduled EDR Contact: 11/26/2018
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: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/03/2018
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/19/2018
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/19/2018
	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	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 06/22/2018
Number of Days to Update: 198	Next Scheduled EDR Contact: 10/01/2018
	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: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 08/24/2018
Number of Days to Update: 2	Next Scheduled EDR Contact: 12/03/2018
	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: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/27/2018
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/13/2018	Source: EPA
Date Data Arrived at EDR: 05/30/2018	Telephone: 703-416-0223
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 09/07/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/17/2018
	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: 05/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/17/2018	Telephone: 202-564-8600
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 07/20/2018
Number of Days to Update: 113	Next Scheduled EDR Contact: 11/05/2018
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 08/09/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 11/19/2018
	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: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 07/13/2018
Number of Days to Update: 126	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/09/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/22/2018
	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 07/23/2018
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/05/2018
	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: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/07/2018
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/17/2018
	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: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/04/2018
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 07/27/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/05/2018
	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: 04/03/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/05/2018	Telephone: 202-343-9775
Date Made Active in Reports: 06/29/2018	Last EDR Contact: 07/05/2018
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/15/2018
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/09/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/01/2018
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: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
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: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
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: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
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 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Semi-Annually

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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
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: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/08/2018	Source: Department of Interior
Date Data Arrived at EDR: 03/13/2018	Telephone: 202-208-2609
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 09/10/2018
Number of Days to Update: 87	Next Scheduled EDR Contact: 12/24/2018
	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: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (415) 947-8000
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/17/2018
	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: 02/25/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/17/2018	Telephone: 202-564-2280
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 83	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016	Source: Department of Defense
Date Data Arrived at EDR: 10/31/2017	Telephone: 703-704-1564
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 07/13/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/29/2018
	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: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 08/31/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 12/10/2018
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 107

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
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: 04/03/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 39

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

CUPA SAN FRANCISCO CO: CUPA SAN FRANCISCO CO

Cupa facilities

Date of Government Version: 04/20/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 10

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/25/2018
Date Data Arrived at EDR: 06/28/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 39

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: DRYCLEAN SOUTH COAST

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/16/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 45

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/31/2018	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 06/20/2018	Telephone: 916-327-4498
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 08/29/2018
Number of Days to Update: 47	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017	Source: California Air Resources Board
Date Data Arrived at EDR: 06/20/2018	Telephone: 916-322-2990
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 06/20/2018
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/01/2018
	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: 08/01/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/02/2018	Telephone: 916-445-9379
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/01/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/17/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/24/2018	Telephone: 916-255-3628
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 07/17/2018
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/14/2018	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 08/16/2018	Telephone: 916-341-6066
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/07/2018
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/26/2018
	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: 12/31/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2017	Telephone: 916-255-1136
Date Made Active in Reports: 10/17/2017	Last EDR Contact: 07/13/2018
Number of Days to Update: 97	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/20/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/21/2018	Telephone: 877-786-9427
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/21/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/03/2018
	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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/20/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/21/2018	Telephone: 916-323-3400
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/21/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/03/2018
	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: 07/09/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/11/2018	Telephone: 916-440-7145
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 07/11/2018
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/22/2018
	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: 06/11/2018	Source: Department of Conservation
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-322-1080
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 54	Next Scheduled EDR Contact: 09/24/2018
	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: 05/23/2018	Source: Department of Public Health
Date Data Arrived at EDR: 06/06/2018	Telephone: 916-558-1784
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/09/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/10/2018	Telephone: 916-445-9379
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/10/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/26/2018
	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: 06/04/2018	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 06/06/2018	Telephone: 916-445-4038
Date Made Active in Reports: 07/19/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/11/2018	Source: Department of Conservation
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-323-3836
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 54	Next Scheduled EDR Contact: 09/24/2018
	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: 06/18/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2018	Telephone: 916-445-3846
Date Made Active in Reports: 08/06/2018	Last EDR Contact: 06/14/2018
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/01/2018
	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: 04/27/2018	Source: Department of Conservation
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-445-2408
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/24/2018
	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: 04/10/2018	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 04/13/2018	Telephone: 559-445-5577
Date Made Active in Reports: 06/19/2018	Last EDR Contact: 07/11/2018
Number of Days to Update: 67	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/17/2018
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Quarterly

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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 06/25/2018
Number of Days to Update: 13	Next Scheduled EDR Contact: 10/08/2018
	Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 06/11/2018	Source: State Water Resource Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/24/2018
	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: 06/11/2018	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/13/2018	Telephone: 866-480-1028
Date Made Active in Reports: 07/18/2018	Last EDR Contact: 12/12/2018
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/24/2018
	Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
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: 07/23/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/25/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 06/11/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/03/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 24

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 27

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
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: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 14

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/25/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

COLUSA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 05/23/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 11/19/2018
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: 05/21/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 56

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 05/02/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 44

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 07/12/2018
Date Data Arrived at EDR: 07/12/2018
Date Made Active in Reports: 08/20/2018
Number of Days to Update: 39

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/30/2018
Next Scheduled EDR Contact: 11/12/2018
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: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 08/30/2018
Number of Days to Update: 44

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

GLENN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 40

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 43

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 05/02/2018
Date Data Arrived at EDR: 05/07/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 72

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 28

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 08/08/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/22/2018
Number of Days to Update: 13

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/27/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/13/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 59

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/16/2018
Date Data Arrived at EDR: 07/18/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 37

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/18/2018
Next Scheduled EDR Contact: 10/29/2018
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: 01/01/2018
Date Data Arrived at EDR: 05/01/2018
Date Made Active in Reports: 05/14/2018
Number of Days to Update: 13

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
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: 04/01/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 63

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
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: 07/11/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Semi-Annually

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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 13

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 10/22/2018
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/22/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/31/2018
Number of Days to Update: 68

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/30/2018
Date Data Arrived at EDR: 04/06/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 28

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/30/2018
Date Data Arrived at EDR: 06/01/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 05/22/2018
Date Data Arrived at EDR: 05/24/2018
Date Made Active in Reports: 07/13/2018
Number of Days to Update: 50

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/30/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 07/02/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
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: 05/23/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 41

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 34

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/13/2018
Date Data Arrived at EDR: 08/08/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/10/2018
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/05/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 43

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 07/19/2018
Date Data Arrived at EDR: 07/25/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 42

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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: 07/09/2018
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 42

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/18/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 05/04/2018
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/18/2018
Next Scheduled EDR Contact: 10/01/2018
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: 05/07/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
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: 05/14/2018
Date Data Arrived at EDR: 07/03/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/03/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA SAN BENITO: CUPA Facility List Cupa facility list

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
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: 07/27/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 41

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/19/2018
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: 06/04/2018
Date Data Arrived at EDR: 06/06/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 41

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 31

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 06/15/2010	Telephone: 619-338-2371
Date Made Active in Reports: 07/09/2010	Last EDR Contact: 08/29/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 08/01/2018
Number of Days to Update: 10	Next Scheduled EDR Contact: 11/19/2018
	Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 06/07/2018	Source: Department of Public Health
Date Data Arrived at EDR: 06/12/2018	Telephone: 415-252-3920
Date Made Active in Reports: 07/10/2018	Last EDR Contact: 08/01/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/19/2018
	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	Source: Environmental Health Department
Date Data Arrived at EDR: 06/26/2018	Telephone: N/A
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 06/14/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 10/01/2018
	Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/20/2018	Source: San Luis Obispo County Public Health Department
Date Data Arrived at EDR: 08/21/2018	Telephone: 805-781-5596
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 08/17/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/03/2018
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
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: 06/12/2018
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 08/13/2018
Number of Days to Update: 59

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
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: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 08/17/2018
Date Data Arrived at EDR: 08/22/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 16

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
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: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/16/2018
Date Data Arrived at EDR: 05/22/2018
Date Made Active in Reports: 07/19/2018
Number of Days to Update: 58

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
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: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
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: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
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: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/18/2018
Number of Days to Update: 40

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 07/12/2018
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 06/19/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 21

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/21/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/03/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 45

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/21/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List

Cupa facility list

Date of Government Version: 08/14/2018
Date Data Arrived at EDR: 08/16/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 8

Source: Stanislaus County Department of Environmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/04/2018
Date Data Arrived at EDR: 06/08/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 33

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 08/29/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 08/02/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 36

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 07/17/2018
Date Data Arrived at EDR: 07/24/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/22/2018
Date Made Active in Reports: 04/17/2018
Number of Days to Update: 26

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 11/19/2018
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: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
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: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 41

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
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: 06/27/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

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: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Quarterly

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: 07/02/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 08/24/2018
Number of Days to Update: 29

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 04/26/2018	Source: Environmental Health Division
Date Data Arrived at EDR: 06/13/2018	Telephone: 805-654-2813
Date Made Active in Reports: 07/11/2018	Last EDR Contact: 06/13/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/24/2018
	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: 06/20/2018	Source: Yolo County Department of Health
Date Data Arrived at EDR: 07/03/2018	Telephone: 530-666-8646
Date Made Active in Reports: 07/12/2018	Last EDR Contact: 06/27/2018
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/15/2018
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 05/10/2018	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 05/15/2018	Telephone: 530-749-7523
Date Made Active in Reports: 06/15/2018	Last EDR Contact: 08/07/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/10/2018	Telephone: 860-424-3375
Date Made Active in Reports: 09/10/2018	Last EDR Contact: 08/09/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/13/2018	Telephone: N/A
Date Made Active in Reports: 08/01/2018	Last EDR Contact: 07/13/2018
Number of Days to Update: 19	Next Scheduled EDR Contact: 10/22/2018
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

AIR PRODUCTS
S. ALAMEDA STREET
LONG BEACH, CA 90810

TARGET PROPERTY COORDINATES

Latitude (North):	33.809444 - 33° 48' 34.00"
Longitude (West):	118.229167 - 118° 13' 45.00"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	386230.3
UTM Y (Meters):	3741513.0
Elevation:	19 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5652670 LONG BEACH, CA
Version Date:	2012
West Map:	5633779 TORRANCE, 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).

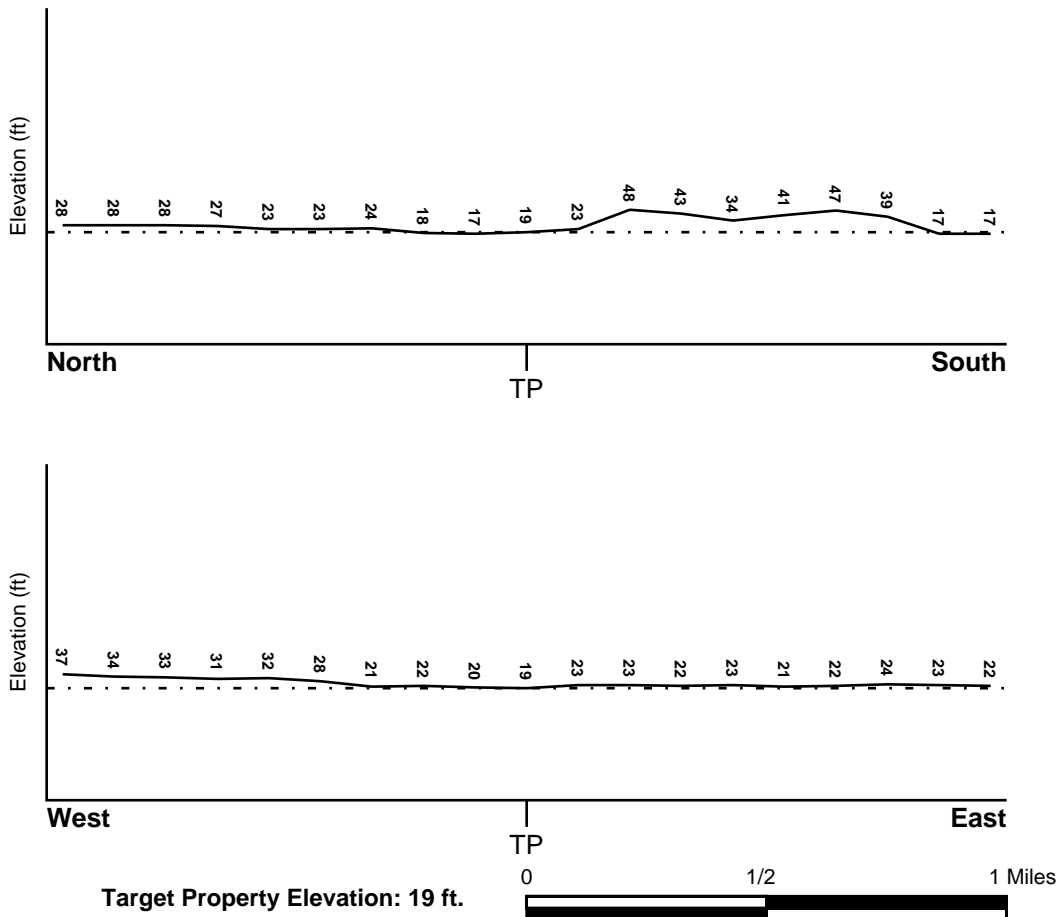
TOPOGRAPHIC INFORMATION

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 North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06037C1965F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06037C1955F	FEMA FIRM Flood data
06037C1962F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NORTH LONG BEACH (OE)	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
Location Relative to TP:	1/4 - 1/2 Mile NW
Site Name:	AIR PRODUCTS & CHEM INC
Site EPA ID Number:	CAT080010655
Groundwater Flow Direction:	West
Measured Depth to Water:	30 to 40 feet in the semi-perched Gaspur aquifer.
Hydraulic Connection:	The Gaspur aquifer is hydraulically connected to the underlying Gage aquifer, which in turn, is interconnected with the underlying Lynwood aquifer.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
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: Stratified 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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types: fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types: stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS40000138383	1/4 - 1/2 Mile WNW
A2	USGS40000138384	1/4 - 1/2 Mile WNW
5	USGS40000138394	1/4 - 1/2 Mile NNW
B8	USGS40000138311	1/2 - 1 Mile SE
9	USGS40000138380	1/2 - 1 Mile West
10	USGS40000138391	1/2 - 1 Mile WNW
C11	USGS40000138326	1/2 - 1 Mile WSW
C12	USGS40000138322	1/2 - 1 Mile WSW
D13	USGS40000138286	1/2 - 1 Mile SW
D14	USGS40000138285	1/2 - 1 Mile SW
D15	USGS40000138287	1/2 - 1 Mile SW
D16	USGS40000138289	1/2 - 1 Mile SW
D17	USGS40000138288	1/2 - 1 Mile SW
E23	USGS40000138409	1/2 - 1 Mile NE
E24	USGS40000138408	1/2 - 1 Mile NE
E25	USGS40000138410	1/2 - 1 Mile NE
E26	USGS40000138412	1/2 - 1 Mile NE
E27	USGS40000138411	1/2 - 1 Mile NE
F28	USGS40000138258	1/2 - 1 Mile SSE
F29	USGS40000138259	1/2 - 1 Mile SSE
F32	USGS40000138244	1/2 - 1 Mile SSE
F33	USGS40000138243	1/2 - 1 Mile SSE
F34	USGS40000138246	1/2 - 1 Mile SSE
F35	USGS40000138245	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

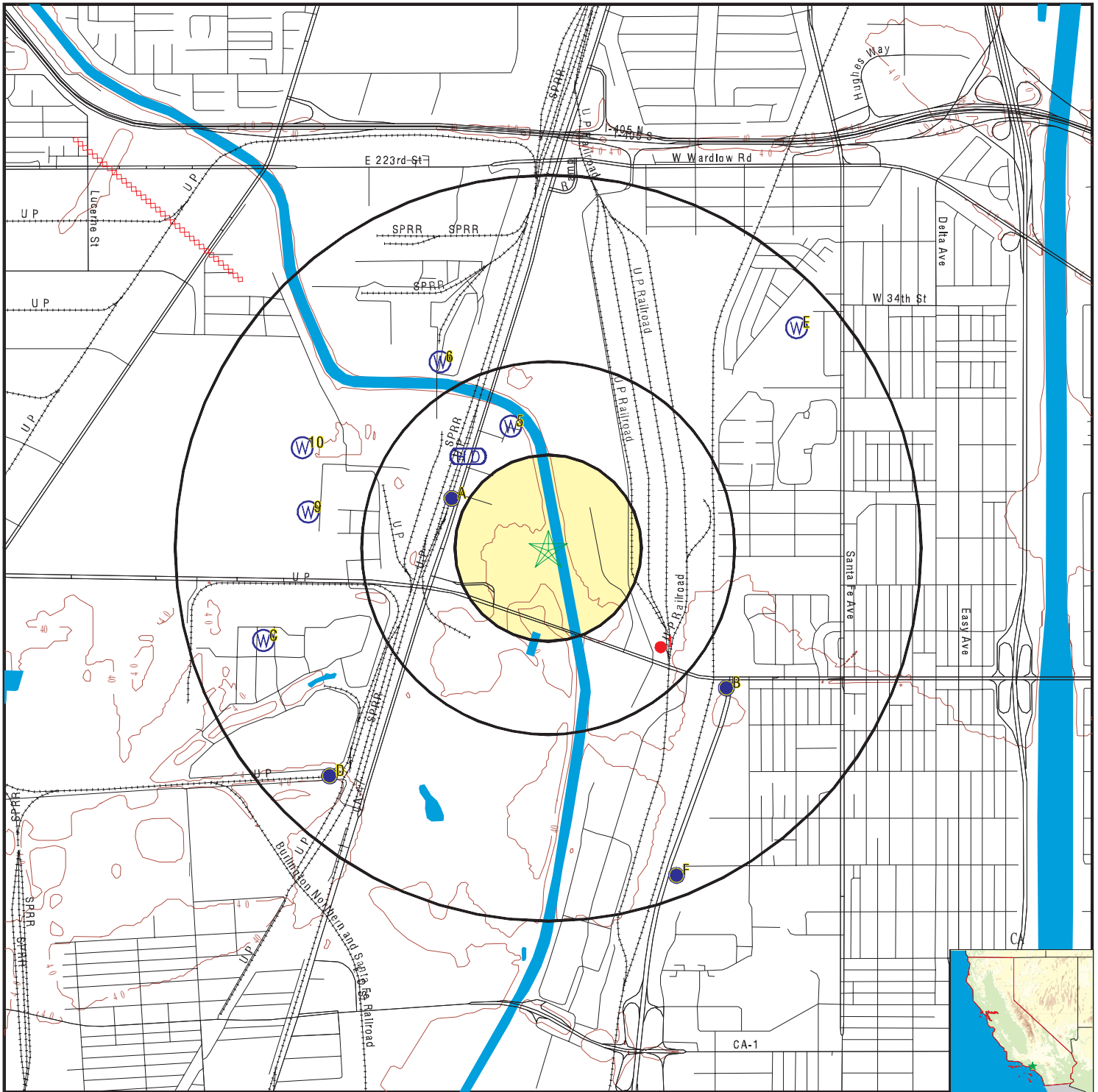
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	CADW60000018933	1/4 - 1/2 Mile WNW
A4	CADW60000034700	1/4 - 1/2 Mile WNW
6	5351	1/2 - 1 Mile NNW
B7	CADW60000018935	1/2 - 1 Mile SE
D18	CADW60000019553	1/2 - 1 Mile SW
D19	CADW60000019551	1/2 - 1 Mile SW
D20	CADW60000019552	1/2 - 1 Mile SW
D21	CADW60000019554	1/2 - 1 Mile SW
D22	CADW60000019555	1/2 - 1 Mile SW
F30	CADW60000015466	1/2 - 1 Mile SSE
F31	CADW60000014337	1/2 - 1 Mile SSE
F36	CADW60000014536	1/2 - 1 Mile SSE
F37	CADW60000014535	1/2 - 1 Mile SSE
F38	CADW60000031059	1/2 - 1 Mile SSE
F39	CADW60000031058	1/2 - 1 Mile SSE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

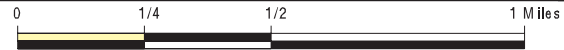
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG11000201120	1/4 - 1/2 Mile SE

PHYSICAL SETTING SOURCE MAP - 5419663.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Air Products
 ADDRESS: S. Alameda Street
 Long Beach CA 90810
 LAT/LONG: 33.809444 / 118.229167

CLIENT: Padre Associates, Inc
 CONTACT: Eric Snelling
 INQUIRY #: 5419663.2s
 DATE: September 11, 2018 4:55 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
WNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000138383

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W22F005S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19690513	Well Depth:	290
Well Depth Units:	ft	Well Hole Depth:	353
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1999-03-09
Feet below surface:	40.41	Feet to sea level:	Not Reported
Note:	Not Reported		

A2
WNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000138384

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W22F006S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19690513	Well Depth:	160
Well Depth Units:	ft	Well Hole Depth:	353
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1999-03-09
Feet below surface:	37.68	Feet to sea level:	Not Reported
Note:	Not Reported		

A3
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADW60000018933

Objectid:	18933	Latitude:	33.8114
Longitude:	-118.2341	Site code:	338114N1182341W002
State well numbe:	04S13W22F006S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000018933		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A4
WNW
1/4 - 1/2 Mile
Higher

CA WELLS CADW60000034700

Objectid:	34700	Latitude:	33.8114
Longitude:	-118.2341	Site code:	338114N1182341W001
State well numbe:	04S13W22F005S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000034700		

5
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS40000138394

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W22F002S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	194811	Well Depth:	572
Well Depth Units:	ft	Well Hole Depth:	700
Well Hole Depth Units:	ft		

6
NNW
1/2 - 1 Mile
Higher

CA WELLS 5351

Seq:	5351	Prim sta c:	04S/13W-15F01 S
Frds no:	1910033024	County:	19
District:	07	User id:	4TH
System no:	1910033	Water type:	G
Source nam:	WELL 77	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334900.0	Longitude:	1181400.0
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:	1910033	System nam:	DOMINGUEZ WATER CORP
Hqname:	DOMINGUEZ WATER CORP	Address:	P.O. BOX 9351
City:	LONG BEACH	State:	CA
Zip:	90810	Zip ext:	Not Reported
Pop serv:	100000	Connection:	32000
Area serve:	Not Reported		
Sample date:	14-MAR-18	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	1.		
Sample date:	14-MAR-18	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	14-MAR-18	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	14-MAR-18	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	14-MAR-18	Finding:	9.8e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	14-MAR-18	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	07-FEB-18	Finding:	0.81
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	07-FEB-18	Finding:	7.4e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	07-FEB-18	Finding:	0.47
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	07-FEB-18	Finding:	7.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	07-FEB-18	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	07-FEB-18	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	07-FEB-18	Finding:	7.01
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	07-FEB-18	Finding:	26.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	07-FEB-18	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	03-JAN-18	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	03-JAN-18	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	03-JAN-18	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	03-JAN-18	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	03-JAN-18	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	26-DEC-17	Finding:	2.1
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	26-DEC-17	Finding:	11.
Chemical:	AGGRSSIVE INDEX (CORROSIIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	26-DEC-17	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	22.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	55.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	5.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	22.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	77.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	26-DEC-17	Finding:	7.12
Chemical:	PH, LABORATORY	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	26-DEC-17	Finding:	330.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	26-DEC-17	Finding:	1.2
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	26-DEC-17	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	26-DEC-17	Finding:	0.22
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	06-DEC-17	Finding:	7.7e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	06-DEC-17	Finding:	6.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-DEC-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	06-DEC-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	06-DEC-17	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	06-DEC-17	Finding:	0.18
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	16-NOV-17	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-NOV-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	16-NOV-17	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	16-NOV-17	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	16-NOV-17	Finding:	0.82
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	16-NOV-17	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-NOV-17	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	16-NOV-17	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-NOV-17	Finding:	24.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	16-NOV-17	Finding:	8.2e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	16-NOV-17	Finding:	0.48
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	04-OCT-17	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	04-OCT-17	Finding:	6.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	04-OCT-17	Finding:	8.e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	04-OCT-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	04-OCT-17	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	20-SEP-17	Finding:	7.49
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	20-SEP-17	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	20-SEP-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	20-SEP-17	Finding:	6.8e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	20-SEP-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	20-SEP-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	20-SEP-17	Finding:	7.5
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	20-SEP-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	09-AUG-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	09-AUG-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	09-AUG-17	Finding:	0.66
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	09-AUG-17	Finding:	7.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-AUG-17	Finding:	7.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-AUG-17	Finding:	0.45
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	09-AUG-17	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	28-JUN-17	Finding:	0.77
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	28-JUN-17	Finding:	0.42
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	10-AUG-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-AUG-16	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-AUG-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	10-AUG-16	Finding:	0.81
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	10-AUG-16	Finding:	0.36
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	10-AUG-16	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-AUG-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-AUG-16	Finding:	7.19
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-AUG-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-AUG-16	Finding:	0.53
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	10-AUG-16	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-AUG-16	Finding:	40.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	10-AUG-16	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	10-AUG-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-AUG-16	Finding:	7.19
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	18-MAY-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	5.
Chemical:	COLOR	Report units:	UNITS

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	18-MAY-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-MAY-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-MAY-16	Finding:	0.41
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	18-MAY-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-MAY-16	Finding:	0.64
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	18-MAY-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-MAY-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAY-16	Finding:	27.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	0.42
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	10-FEB-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	0.74
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	10-FEB-16	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	0.41
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-FEB-16	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-FEB-16	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	5.
Sample date:	04-NOV-15	Report units:	UNITS
Chemical:	COLOR		
Dir:	0.		
Sample date:	04-NOV-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	04-NOV-15	Finding:	7.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	04-NOV-15	Finding:	0.16
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	04-NOV-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	04-NOV-15	Finding:	7.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	04-NOV-15	Finding:	0.81
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	04-NOV-15	Finding:	0.38
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	04-NOV-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	23-SEP-15	Finding:	7.26
Chemical:	METHYL ETHYL KETONE	Report units:	UG/L
Dir:	5.		
Sample date:	19-AUG-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	19-AUG-15	Finding:	0.47
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	19-AUG-15	Finding:	0.71
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	19-AUG-15	Finding:	0.25
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	19-AUG-15	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	19-AUG-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	19-AUG-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	19-AUG-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	15-JUL-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	15-JUL-15	Finding:	8.26
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	07-JUL-15	Finding:	25.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	07-JUL-15	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	23-JUN-15	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	23-JUN-15	Finding:	26.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	16-JUN-15	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-JUN-15	Finding:	26.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	12-JUN-15	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-JUN-15	Finding:	25.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	09-JUN-15	Finding:	25.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	09-JUN-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAY-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	12-MAY-15	Finding:	27.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	06-MAY-15	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	06-MAY-15	Finding:	0.16
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	06-MAY-15	Finding:	0.71
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	06-MAY-15	Finding:	0.42
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	06-MAY-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-MAY-15	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	06-MAY-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	06-MAY-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-MAY-15	Finding:	25.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	08-APR-15	Finding:	25.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	08-APR-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-MAR-15	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	11-MAR-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-MAR-15	Finding:	2.5
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	11-MAR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	11-MAR-15	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-MAR-15	Finding:	24.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	17-FEB-15	Finding:	25.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	17-FEB-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-FEB-15	Finding:	8.6e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	11-FEB-15	Finding:	26.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	11-FEB-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-FEB-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	11-FEB-15	Finding:	0.616
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	11-FEB-15	Finding:	0.4
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	11-FEB-15	Finding:	7.8e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	11-FEB-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-FEB-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	11-FEB-15	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	11-FEB-15	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	28-JAN-15	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	28-JAN-15	Finding:	25.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	21-JAN-15	Finding:	24.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	21-JAN-15	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	03-DEC-14	Finding:	23.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	03-DEC-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-NOV-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-NOV-14	Finding:	5.1e-002
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	12-NOV-14	Finding:	0.4
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	12-NOV-14	Finding:	0.66
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	12-NOV-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	12-NOV-14	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	12-NOV-14	Finding:	5.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	12-NOV-14	Finding:	24.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	12-NOV-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	06-NOV-14	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-NOV-14	Finding:	25.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	07-OCT-14	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	07-OCT-14	Finding:	26.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	03-SEP-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	21-AUG-14	Finding:	8.23
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-AUG-14	Finding:	28.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-AUG-14	Finding:	0.67
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	13-AUG-14	Finding:	0.39
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	13-AUG-14	Finding:	0.24
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	13-AUG-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-AUG-14	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	13-AUG-14	Finding:	28.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-AUG-14	Finding:	8.1
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	14-JUL-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-JUL-14	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	30-JUN-14	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	24-JUN-14	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	26.5
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-JUN-14	Finding:	0.6
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	18-JUN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-JUN-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	18-JUN-14	Finding:	0.43
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	18-JUN-14	Finding:	26.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	10-JUN-14	Finding:	7.71
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	05-JUN-14	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	04-JUN-14	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	26-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	26-FEB-14	Finding:	0.38
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	0.91
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	26-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	0.44
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	26-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	23.
Chemical:	SOURCE TEMPERATURE C	Report units:	C

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-FEB-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	27-JAN-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-JAN-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-JAN-14	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-DEC-13	Finding:	9.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	18-DEC-13	Finding:	4.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	18-DEC-13	Finding:	1.9
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	18-DEC-13	Finding:	3.2
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	18-DEC-13	Finding:	7.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	16-DEC-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-DEC-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-DEC-13	Finding:	7.6
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	19-NOV-13	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-NOV-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-NOV-13	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	06-NOV-13	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	06-NOV-13	Finding:	0.39
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	06-NOV-13	Finding:	0.75
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	06-NOV-13	Finding:	0.48
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	05-NOV-13	Finding:	7.
Chemical:	PH, FIELD	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	16-OCT-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-SEP-13	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	10-SEP-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	10-SEP-13	Finding:	0.33
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	14-AUG-13	Finding:	0.44
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	14-AUG-13	Finding:	0.88
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	13-AUG-13	Finding:	7.2
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-AUG-13	Finding:	7.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	22-JUL-13	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	16-JUL-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-JUN-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	23-MAY-13	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAY-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	21-MAY-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAY-13	Finding:	7.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	08-MAY-13	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-MAY-13	Finding:	15.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	08-MAY-13	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-MAY-13	Finding:	25.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	08-MAY-13	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	08-MAY-13	Finding:	0.44
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	08-MAY-13	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-MAY-13	Finding:	25.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	08-MAY-13	Finding:	0.81
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	08-MAY-13	Finding:	25.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	08-MAY-13	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	07-MAY-13	Finding:	8.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-APR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	25-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	22-MAR-13	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-MAR-13	Finding:	8.2
Chemical:	PH, FIELD	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	13-MAR-13	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	24.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-MAR-13	Finding:	24.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-MAR-13	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	0.4
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	13-MAR-13	Finding:	2.6
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	13-MAR-13	Finding:	21.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	48.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	4.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	21.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	72.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	13-MAR-13	Finding:	5.
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃	Report units:	MG/L
Dir:	0.		
Sample date:	13-MAR-13	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	350.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	13-MAR-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	13-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	24.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-MAR-13	Finding:	24.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dir:	0.		
Sample date:	13-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-13	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	06-FEB-13	Finding:	0.17
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	06-FEB-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	06-FEB-13	Finding:	0.35
Chemical:	AMMONIA (NH ₃ -N)	Report units:	MG/L
Dir:	0.		
Sample date:	06-FEB-13	Finding:	0.78
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.3		
Sample date:	16-JAN-13	Finding:	6.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	13-DEC-12	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	19-NOV-12	Finding:	7.8
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	14-NOV-12	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	14-NOV-12	Finding:	0.47
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	14-NOV-12	Finding:	0.86
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	14-NOV-12	Finding:	3.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	14-NOV-12	Finding:	0.14
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	14-NOV-12	Finding:	0.11
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		
Sample date:	24-OCT-12	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	18-OCT-12	Finding:	8.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	26-SEP-12	Finding:	2.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dir:	0.		
Sample date:	26-SEP-12	Finding:	1.92
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dir:	1.		
Sample date:	05-SEP-12	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	08-AUG-12	Finding:	0.1
Chemical:	SULFIDE	Report units:	MG/L
Dir:	0.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	08-AUG-12	Finding:	8.5e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	08-AUG-12	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	08-AUG-12	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	08-AUG-12	Finding:	0.46
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	08-AUG-12	Finding:	0.71
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	06-AUG-12	Finding:	8.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-JUL-12	Finding:	8.4
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	25-JUN-12	Finding:	8.3
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-MAY-12	Finding:	0.81
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	09-MAY-12	Finding:	7.7
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	09-MAY-12	Finding:	0.41
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	09-MAY-12	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	09-MAY-12	Finding:	2.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	09-MAY-12	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	11-APR-12	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		
Sample date:	12-MAR-12	Finding:	7.9
Chemical:	PH, FIELD	Report units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	8.3
Sample date:	14-FEB-12	Report units:	Not Reported
Chemical:	PH, FIELD		
Dir:	0.		
Sample date:	08-FEB-12	Finding:	9.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	08-FEB-12	Finding:	0.7
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dir:	0.3		
Sample date:	08-FEB-12	Finding:	0.42
Chemical:	AMMONIA (NH3-N)	Report units:	MG/L
Dir:	0.		
Sample date:	08-FEB-12	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	11-JAN-12	Finding:	8.
Chemical:	PH, FIELD	Report units:	Not Reported
Dir:	0.		

**B7
SE
1/2 - 1 Mile
Higher**

CA WELLS CADW60000018935

Objectid:	18935	Latitude:	33.804
Longitude:	-118.2213	Site code:	338040N1182213W001
State well numbe:	04S13W23N003S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000018935		

**B8
SE
1/2 - 1 Mile
Higher**

FED USGS USGS40000138311

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	Not Reported
Monitor Location:	004S013W23N003S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Drainage Area:	Not Reported		
Contrib Drainage Area:	Not Reported		
Aquifer:	California Coastal Basin aquifers	Aquifer Type:	Not Reported
Formation Type:	Not Reported	Well Depth:	471
Construction Date:	19600504	Well Hole Depth:	1125
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1999-02-11
Feet below surface:	79.9	Feet to sea level:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Note: Not Reported

9

**West
1/2 - 1 Mile
Higher**

FED USGS USGS40000138380

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W21J002S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	800
Well Depth Units:	ft	Well Hole Depth:	800
Well Hole Depth Units:	ft		

10

**WNW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138391

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W21H007S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	19691020	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	745
Well Hole Depth Units:	ft		

C11

**WSW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138326

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W21R001S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	780
Well Depth Units:	ft	Well Hole Depth:	846
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

C12
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000138322

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W21R002S	Type:	Well
Description:	Not Reported	HUC:	18070104
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		

D13
SW
1/2 - 1 Mile
Higher

FED USGS USGS40000138286

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W28A004S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	19971111	Well Depth:	800
Well Depth Units:	ft	Well Hole Depth:	1038
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	30	Level reading date:	2002-09-25
Feet below surface:	97.31	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-06-26	Feet below surface:	98.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	104.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-29	Feet below surface:	102.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	96.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-27	Feet below surface:	110.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-07-02	Feet below surface:	109.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-29	Feet below surface:	110.41

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-02-15	Feet below surface:	102.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	102.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-31	Feet below surface:	108.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	7.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-04	Feet below surface:	109.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-07	Feet below surface:	112.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-04	Feet below surface:	110.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	110.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-31	Feet below surface:	110.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-12	Feet below surface:	108.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-24	Feet below surface:	108.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-23	Feet below surface:	108.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-05	Feet below surface:	108.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-18	Feet below surface:	110.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-18	Feet below surface:	112.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-05	Feet below surface:	112.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-01	Feet below surface:	114.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	112.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-13	Feet below surface:	109.08
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer had been pumped recently.		
Level reading date:	1997-12-16	Feet below surface:	108.20
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1997-12-04	Feet below surface:	108.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-02	Feet below surface:	108.80
Feet to sea level:	Not Reported	Note:	Not Reported

**D14
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138285

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W28A003S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	19971111	Well Depth:	1035
Well Depth Units:	ft	Well Hole Depth:	1038
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	27	Level reading date:	2002-09-25
Feet below surface:	97.08	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-06-26	Feet below surface:	98.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	103.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-29	Feet below surface:	101.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	95.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-27	Feet below surface:	109.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-07-02	Feet below surface:	109.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-29	Feet below surface:	110.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	101.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-31	Feet below surface:	108.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	106.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-04	Feet below surface:	109.19
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	2000-01-07	Feet below surface:	112.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-04	Feet below surface:	110.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	110.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-31	Feet below surface:	110.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-12	Feet below surface:	108.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-24	Feet below surface:	108.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-23	Feet below surface:	108.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-05	Feet below surface:	108.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-18	Feet below surface:	110.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-18	Feet below surface:	112.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-05	Feet below surface:	112.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-01	Feet below surface:	114.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	112.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-13	Feet below surface:	109.16
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer had been pumped recently.		
Level reading date:	1997-12-16	Feet below surface:	108.25
Feet to sea level:	Not Reported	Note:	Not Reported

**D15
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138287

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W28A005S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	19971111	Well Depth:	570
Well Depth Units:	ft	Well Hole Depth:	1038

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Hole Depth Units: ft

Ground water levels,Number of Measurements:	28	Level reading date:	2002-09-25
Feet below surface:	97.34	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-06-26	Feet below surface:	98.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	104.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-29	Feet below surface:	102.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	96.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-27	Feet below surface:	110.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-07-02	Feet below surface:	109.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-29	Feet below surface:	110.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	102.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-31	Feet below surface:	108.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	107.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-04	Feet below surface:	109.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-07	Feet below surface:	112.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-04	Feet below surface:	100.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	110.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-31	Feet below surface:	110.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-12	Feet below surface:	109.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-24	Feet below surface:	108.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-23	Feet below surface:	108.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-05	Feet below surface:	108.47

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-18	Feet below surface:	110.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-18	Feet below surface:	112.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-05	Feet below surface:	112.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-01	Feet below surface:	114.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	113.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-13	Feet below surface:	109.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-16	Feet below surface:	96.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-03	Feet below surface:	110.08
Feet to sea level:	Not Reported	Note:	Not Reported

**D16
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138289

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W28A007S	Type:	Well
Description:	Not Reported	HUC:	18070104
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:	19971111	Well Depth:	140
Well Depth Units:	ft	Well Hole Depth:	1038
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	27	Level reading date:	2002-09-25
Feet below surface:	61.50	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-06-26	Feet below surface:	63.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-05-13	Feet below surface:	63.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	62.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-27	Feet below surface:	65.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-07-02	Feet below surface:	65.06

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-29	Feet below surface:	64.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	64.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-10-31	Feet below surface:	64.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	63.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-04	Feet below surface:	65.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-07	Feet below surface:	66.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-04	Feet below surface:	66.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	69.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-31	Feet below surface:	66.98
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-12	Feet below surface:	65.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-24	Feet below surface:	66.57
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1999-04-23	Feet below surface:	66.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-05	Feet below surface:	66.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-18	Feet below surface:	68.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-18	Feet below surface:	67.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-05	Feet below surface:	68.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-01	Feet below surface:	66.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	65.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-12	Feet below surface:	64.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-16	Feet below surface:	64.67
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1997-12-04	Feet below surface:	64.54
Feet to sea level:	Not Reported	Note:	Not Reported

**D17
SW
1/2 - 1 Mile
Higher**

FED USGS USGS40000138288

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W28A006S	Type:	Well
Description:	Not Reported	HUC:	18070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19971111	Well Depth:	245
Well Depth Units:	ft	Well Hole Depth:	1038
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	28	Level reading date:	2002-09-25
Feet below surface:	64.86	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2002-06-26	Feet below surface:	66.52
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-05-13	Feet below surface:	67.42
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-29	Feet below surface:	66.77
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-12-26	Feet below surface:	66.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-09-27	Feet below surface:	69.94
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-07-02	Feet below surface:	69.14
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-29	Feet below surface:	68.59
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-12-28	Feet below surface:	67.72
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-10-31	Feet below surface:	68.12
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-09-27	Feet below surface:	67.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-04-04	Feet below surface:	68.97
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-01-07	Feet below surface:	70.88
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Level reading date:	1999-10-04	Feet below surface:	70.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	69.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-08-31	Feet below surface:	70.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-05-12	Feet below surface:	69.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-24	Feet below surface:	70.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-04-23	Feet below surface:	70.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-02-05	Feet below surface:	70.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-11-18	Feet below surface:	72.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-18	Feet below surface:	71.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-05	Feet below surface:	72.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-07-01	Feet below surface:	71.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-04-23	Feet below surface:	69.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-01-12	Feet below surface:	68.96
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1997-12-16	Feet below surface:	68.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-03	Feet below surface:	69.12
Feet to sea level:	Not Reported	Note:	Not Reported

**D18
SW
1/2 - 1 Mile
Higher**

CA WELLS CADW60000019553

Objectid:	19553	Latitude:	33.8006
Longitude:	-118.2398	Site code:	338006N1182398W003
State well number:	04S13W28A005S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000019553		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

D19
SW
1/2 - 1 Mile
Higher

CA WELLS CADW60000019551

Objectid:	19551	Latitude:	33.8006
Longitude:	-118.2398	Site code:	338006N1182398W001
State well numbe:	04S13W28A003S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000019551		

D20
SW
1/2 - 1 Mile
Higher

CA WELLS CADW60000019552

Objectid:	19552	Latitude:	33.8006
Longitude:	-118.2398	Site code:	338006N1182398W002
State well numbe:	04S13W28A004S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000019552		

D21
SW
1/2 - 1 Mile
Higher

CA WELLS CADW60000019554

Objectid:	19554	Latitude:	33.8006
Longitude:	-118.2398	Site code:	338006N1182398W004
State well numbe:	04S13W28A006S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000019554		

D22
SW
1/2 - 1 Mile
Higher

CA WELLS CADW60000019555

Objectid:	19555	Latitude:	33.8006
Longitude:	-118.2398	Site code:	338006N1182398W005
State well numbe:	04S13W28A007S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000019555		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E23
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000138409

Organization ID:	USGS-CA	Type:	Well
Organization Name:	USGS California Water Science Center	HUC:	Not Reported
Monitor Location:	004S013W23D004S	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Aquifer Type:	Not Reported
Contrib Drainage Area:	Not Reported	Well Depth:	1017
Aquifer:	California Coastal Basin aquifers	Well Hole Depth:	1404
Formation Type:	Not Reported		
Construction Date:	20000710		
Well Depth Units:	ft		
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	2002-09-29
Feet below surface:	85.42	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2002-07-31	Feet below surface:	83.98
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-06-26	Feet below surface:	86.59
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-29	Feet below surface:	91.61
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-12-26	Feet below surface:	72.56
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-11-14	Feet below surface:	74.22
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-09-25	Feet below surface:	75.08
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-06-26	Feet below surface:	74.11
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-26	Feet below surface:	100.06
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-07	Feet below surface:	72.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-01-23	Feet below surface:	73.21
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-12-28	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-09-27	Feet below surface:	74.13
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-08-31	Feet below surface:	74.44
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

E24
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000138408

Organization ID:	USGS-CA				
Organization Name:	USGS California Water Science Center				
Monitor Location:	004S013W23D003S	Type:	Well		
Description:	Not Reported	HUC:	Not Reported		
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported		
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported		
Aquifer:	California Coastal Basin aquifers				
Formation Type:	Not Reported	Aquifer Type:	Not Reported		
Construction Date:	20000710	Well Depth:	1390		
Well Depth Units:	ft	Well Hole Depth:	1404		
Well Hole Depth Units:	ft				

Ground water levels, Number of Measurements:	14	Level reading date:	2002-09-29
Feet below surface:	70.26	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2002-07-31	Feet below surface:	71.33
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-06-26	Feet below surface:	71.86
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-29	Feet below surface:	69.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-12-26	Feet below surface:	72.56
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-11-14	Feet below surface:	74.22
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-09-25	Feet below surface:	75.08
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-06-26	Feet below surface:	74.11
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-26	Feet below surface:	72.22
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-07	Feet below surface:	72.10
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-01-23	Feet below surface:	73.21
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-12-28	Feet below surface:	74.00
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-09-27	Feet below surface:	74.13
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-08-31	Feet below surface:	74.44
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E25
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000138410

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W23D005S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20000710	Well Depth:	690
Well Depth Units:	ft	Well Hole Depth:	1404
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	2002-09-29
Feet below surface:	85.38	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-07-31	Feet below surface:	83.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-06-26	Feet below surface:	86.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-29	Feet below surface:	91.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	83.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-14	Feet below surface:	87.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-25	Feet below surface:	99.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-26	Feet below surface:	99.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-26	Feet below surface:	99.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-07	Feet below surface:	94.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-23	Feet below surface:	86.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	90.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	96.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-08-31	Feet below surface:	91.03
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

E26
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000138412

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W23D007S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20000710	Well Depth:	430
Well Depth Units:	ft	Well Hole Depth:	1404
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	2002-09-29
Feet below surface:	37.13	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2002-07-31	Feet below surface:	37.36
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-06-26	Feet below surface:	38.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-29	Feet below surface:	37.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-12-26	Feet below surface:	37.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-11-14	Feet below surface:	37.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-09-25	Feet below surface:	38.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-06-26	Feet below surface:	38.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-26	Feet below surface:	37.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-07	Feet below surface:	37.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-01-23	Feet below surface:	37.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-12-28	Feet below surface:	37.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-27	Feet below surface:	37.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-08-31	Feet below surface:	37.20
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

E27
NE
1/2 - 1 Mile
Higher

FED USGS USGS40000138411

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W23D006S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20000710	Well Depth:	550
Well Depth Units:	ft	Well Hole Depth:	1404
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	2002-09-29
Feet below surface:	85.54	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	2002-07-31	Feet below surface:	83.90
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-06-26	Feet below surface:	86.38
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2002-03-29	Feet below surface:	91.55
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-12-26	Feet below surface:	83.11
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-11-14	Feet below surface:	87.53
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-09-25	Feet below surface:	99.02
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-06-26	Feet below surface:	99.02
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-26	Feet below surface:	93.68
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-03-07	Feet below surface:	93.87
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2001-01-23	Feet below surface:	86.62
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-12-28	Feet below surface:	90.41
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-09-27	Feet below surface:	96.39
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	2000-08-31	Feet below surface:	90.93
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

F28
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000138258

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H008S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19920928	Well Depth:	341
Well Depth Units:	ft	Well Hole Depth:	415
Well Hole Depth Units:	ft		

F29
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40000138259

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H009S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19920928	Well Depth:	201
Well Depth Units:	ft	Well Hole Depth:	415
Well Hole Depth Units:	ft		

F30
SSE
1/2 - 1 Mile
Lower

CA WELLS CADW60000015466

Objectid:	15466	Latitude:	33.7973
Longitude:	-118.223	Site code:	337973N1182230W002
State well numbe:	04S13W27H009S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000015466		

F31
SSE
1/2 - 1 Mile
Lower

CA WELLS CADW60000014337

Objectid:	14337	Latitude:	33.7973
Longitude:	-118.223	Site code:	337973N1182230W001

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State well number:	04S13W27H008S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000014337		

**F32
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS40000138244

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H005S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20020908	Well Depth:	670
Well Depth Units:	ft	Well Hole Depth:	1412
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2003-08-25
Feet below surface:	75.90	Feet to sea level:	Not Reported
Note:	Not Reported		

**F33
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS40000138243

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H004S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20020908	Well Depth:	1400
Well Depth Units:	ft	Well Hole Depth:	1412
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2003-08-25
Feet below surface:	60.08	Feet to sea level:	Not Reported
Note:	Not Reported		

**F34
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS40000138246

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H007S	Type:	Well

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20020908	Well Depth:	380
Well Depth Units:	ft	Well Hole Depth:	1412
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2003-08-25
Feet below surface:	63.20	Feet to sea level:	Not Reported
Note:	Not Reported		

**F35
SSE
1/2 - 1 Mile
Lower**

FED USGS USGS40000138245

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	004S013W27H006S	Type:	Well
Description:	Not Reported	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	20020908	Well Depth:	490
Well Depth Units:	ft	Well Hole Depth:	1412
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	2003-08-25
Feet below surface:	75.93	Feet to sea level:	Not Reported
Note:	Not Reported		

**F36
SSE
1/2 - 1 Mile
Lower**

CA WELLS CADW60000014536

Objectid:	14536	Latitude:	33.7964
Longitude:	-118.2233	Site code:	337964N1182233W004
State well numbe:	04S13W27H007S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000014536		

**F37
SSE
1/2 - 1 Mile
Lower**

CA WELLS CADW60000014535

Objectid:	14535	Latitude:	33.7964
Longitude:	-118.2233	Site code:	337964N1182233W002
State well numbe:	04S13W27H005S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000014535		

**F38
SSE
1/2 - 1 Mile
Lower**

CA WELLS CADW60000031059

Objectid:	31059	Latitude:	33.7964
Longitude:	-118.2233	Site code:	337964N1182233W003
State well numbe:	04S13W27H006S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031059		

**F39
SSE
1/2 - 1 Mile
Lower**

CA WELLS CADW60000031058

Objectid:	31058	Latitude:	33.7964
Longitude:	-118.2233	Site code:	337964N1182233W001
State well numbe:	04S13W27H004S	Local well name:	"
Well use id:	6	Well use descrip:	Unknown
County id:	19	County name:	Los Angeles
Basin code:	'4-11.03'	Basin desc:	West Coast
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000031058		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SE
1/4 - 1/2 Mile

OIL_GAS CAOG11000201120

Districtnu:	1	Apinumber:	03701278
Blmwell:	N	Redrillcan:	Not Reported
Dryhole:	Y	Wellstatus:	P
Operatorna:	Alford Development Company	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	22	Township:	04S
Range:	13W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Cy	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000201120		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90810	11	0

Federal EPA Radon Zone for LOS ANGELES 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 LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

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.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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**APPENDIX D -
ENVIRONMENTAL PROFESSIONALS' QUALIFICATIONS**

QUALIFICATIONS

The environmental professionals responsible for conducting or reviewing this Phase I ESA and preparing the report include Mr. Chris Prevost and Mr. Jerome Summerlin. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental

Eric K. Snelling, R.E.P.A. is a Principal with Padre. He holds a Master of Science in Water Resource Management from California State University at Fresno and a Bachelor of Science degree in City and Regional Planning from California Polytechnic State University at San Luis Obispo. Mr. Snelling also obtained a Professional Certificate in Hazardous Materials Management from the University of California at Santa Barbara in 1998. Mr. Snelling's responsibilities include completion of Phase I and II environmental site assessment projects and implementation of soil and groundwater remediation programs within Padre's Geo-environmental group. Mr. Snelling has performed over 200 Phase I ESAs throughout California and also in Washington, Nevada, Texas, and the U.S. Virgin Islands. Mr. Snelling routinely manages the completion of Phase II site assessments for determining whether soil and groundwater impacts have occurred from current or historical site uses. Mr. Snelling also manages the implementation of remediation activities, including soil vapor extraction, groundwater treatment systems, and excavation with either on-site treatment or off-site disposal. Mr. Snelling is a Registered Environmental Property Assessor.

Jerome K. Summerlin, P.G., C.E.G., C.Hg., is a Principal Geologist with Padre Associates, Inc. He holds a Bachelor of Science degree in Geology from California State University, Chico. Mr. Summerlin obtained a Professional Certificate in Hazardous Materials Management from the University of California at Santa Barbara Extension in 1991 and a Professional Certificate in Site Assessment and Remediation from the University of California at Davis in 1993. Mr. Summerlin is a State of California Professional Geologist, Certified Engineering Geologist, and Certified Hydrogeologist. Mr. Summerlin is responsible for the firm's Geo-environmental assessment and remediation practices. Mr. Summerlin has been responsible for and participated in a variety of geotechnical, geologic, hydrogeologic, and geoenvironmental projects throughout California, Nevada, Utah, Alaska, Wyoming, Texas, Arizona, and Hawaii. He has managed environmental assessment and remediation projects, which have included preliminary site assessment (Phase I), site assessment (Phase II), remedial action design and planning/permitting, implementation of remedial action programs (Phase III), and verification monitoring upon completion of remedial actions (Phase IV). His training and experience include a firm understanding of environmental laws and regulations, sample collection, analytical procedures and protocols, site safety procedures, quality assurance/quality control requirements, remedial action feasibility analyses, and design of remedial systems.

September 18, 2019
Project No. 1802-2611

Air Products and Chemicals, Inc.
4000 MacArthur Boulevard, Suite 420 East Tower
Newport Beach, California 92660

Attention: Mr. Eric Guter, General Manager, HyCO Western Region

Subject: Phase II Environmental Site Assessment Report, Carson to Paramount Hydrogen Gas Pipeline Project, Carson, Los Angeles County, California

Dear Mr. Guter:

Padre Associates, Inc. (Padre), on behalf of Air Products and Chemicals, Inc. (APCI), has prepared this letter-report documenting the Phase II environmental site assessment activities completed at the proposed corridor of 0.5-miles of new hydrogen gas pipeline to be located parallel to the Dominguez Channel, in Carson, Los Angeles County, California (Project Site). Refer to Plate 1 – Site Location Map. The 0.5-miles of proposed underground pipeline would be located within an existing pipeline corridor owned by Marathon Oil Company.

OBJECTIVE AND SCOPE OF WORK

The objective of the Phase II ESA activities was to assess the current soil conditions within the area of the Project Site that are proposed to be disturbed by pipeline construction activities. Padre completed the following tasks as part of the assessment activities:

- Preparation of a Technical Work Plan (TWP) and Health and Safety Plan (HASP) for submittal to APCI for review and approval;
- Completion of a pre-assessment site visit to mark the proposed drill hole locations prior to notifying Underground Service Alert (USA) for clearance of potential underground utilities;
- Manually advanced 19 hand-augered drill holes along the pipeline corridor at 100-foot intervals to delineate the lateral and vertical extent of contaminated soils within the vicinity of the proposed pipeline alignment, and collection of undisturbed soil samples for chemical analyses;
- Chemical analyses of a total of 19 soil samples (selected based on field observations) for the presence of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), heavy metals, organochlorine pesticides (OCPs), chlorinated herbicides, and polychlorinated biphenyls (PCBs), and two soil samples for hazardous waste characterization analyses; and

- Preparation of this Phase II ESA letter-report detailing and documenting the field methodologies utilized, field conditions observed, a summary of the chemical analytical results of soil samples collected, as well as presenting Padre's conclusions and/or recommendations for the Project Site.

OVERVIEW

The Project Site consists of the construction and operation of a 12.5-mile long pipeline that will connect existing facilities in Carson to a customer in Paramount, California. The pipeline would cross the cities of Carson, Long Beach, Bellflower, and Paramount and would also include a portion within unincorporated Los Angeles County. The planned pipeline alignment generally follows existing paved roads with few isolated exceptions. The proposed pipeline route traverses through city streets of urban residential, commercial, and industrial development. The Project will utilize existing idle pipelines for approximately 11.5 miles of the entire length and would require construction of approximately 0.5 miles of new pipeline within the City of Carson. Several pipe connections would be required to connect segments of existing pipelines. Air Products would also add, replace, or remove existing valves within valve boxes located along the route. The pipeline would cross the Los Angeles River and the Dominguez Channel utilizing existing pipe bridges.

ENVIRONMENTAL SETTING

The Project Site is located on the within the Los Angeles Basin. Specifically, the Project area is underlain by Holocene to late-Pleistocene, age-unconsolidated alluvial deposits. The area adjacent to the Dominguez Channel has been filled historically to raise and flatten the topography along the proposed pipeline route.

The Project Site is located within the South Coast Groundwater basin, and West Coast Subbasin, identified by the State of California Department of Water Resources (DWR, 2016). Depth to groundwater in the vicinity of the Project Site is reportedly greater than 25 feet below ground surface, however perched groundwater tables may be possible. Regionally, the groundwater generally flows in a southward and westward direction toward the ocean (DWR, 2016).

ASSESSMENT METHODOLOGY

Padre completed the Phase II ESA activities discussed herein within the Project Area to establish current soil conditions at the Project Site (refer to Plate 2). Presented below is Padre's methodology used to safely and effectively complete the preliminary soil assessment activities.

Health and Safety Plan

Padre prepared a site-specific TWP and HASP for the Phase II ESA program. The TWP included the methodology and sampling and analyses plan for the proposed Phase II ESA

activities. The HSP included procedures, equipment, and materials/supplies utilized to protect worker and community health and safety during the assessment activities.

Underground Service Alert

Padre completed a pre-assessment site visit to demarcate the surface area of each of the 19 drill hole locations with white construction flagging and lath. Padre also contracted a private utility locator, Pacific Coast Locators, Inc., to evaluate the assessment locations of subsurface infrastructure. Underground utilities were noted and drill hole locations moved if needed to avoid underground lines. Dig Alert was notified so that utility owners could visit the Project Site and mark their pipelines to ensure that the proposed drill holes would avoid any potential conflicts.

Soil Assessment Activities

Padre observed and documented the advancement of 19 hand-augered drill holes at the Project Site to assess the current soil conditions in the Project area. The drill holes were manually advanced to total depths of approximately five feet. Undisturbed soil samples were collected from the ground surface and at depths of approximately 2-feet and 5-feet at each drill hole location.

Soil samples were geologically logged by Padre using the Unified Soil Classification System (USCS). Soil samples that were retained for chemical analyses will be sealed, labeled, and preserved on ice in the field. Chain-of-Custody (COC) forms were used to document soil sample management procedures. At the conclusion of soil sampling activities, the drill holes advanced at the Project Site were backfilled with native soil.

Sampling equipment was cleaned before use, between sample collection locations, and after completion of fieldwork. Cleaning procedures consisted of a non-phosphate detergent wash, two rinses with tap water, and a final de-ionized water rinse. Assessment-derived wash water will be disposed properly following completion of site activities.

LABRATORY ANALYTICAL PROGRAM

Nineteen soil samples (one sample selected from each drill hole) were chemically analyzed for the presence of TPH by U.S. Environmental Protection Agency (U.S. EPA) method 8015B, VOCs by U.S. EPA method 8260, California-regulated metals by U.S. EPA method 6010/7000 series, OCPs by U.S. EPA method 8081A, PCBs by U.S. EPA method 8082, and chlorinated herbicides by U.S. EPA method 8151. Additionally, two representative soil samples were analyzed for semi-volatile organic compounds (SVOCs) by U.S. EPA method 8270C, and reactivity/ignitability/corrosivity analyses. All soil samples were submitted to Advanced Technology Laboratories, Inc. (ATL) in Signal Hill, California, for chemical analyses. ATL is certified by the State of California to conduct the required analyses, except for chlorinated herbicides and ignitability. Chlorinated herbicide and reactivity analyses were completed by American Environmental Testing Laboratory, Inc. of Burbank, California. Ignitability testing was performed by Silver State Analytical Laboratories of Reno, Nevada.

QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES

The quality assurance / quality control (QA/QC) procedures was utilized in both sample collection and chemical analyses. The purpose of the QA/QC procedures was to ensure the reliability and compatibility of all data generated during the subject assessment program.

Field QA/QC Procedures

Field QA/QC procedures were performed during the sampling program and consisted of the following measures:

- COC forms were used for sample submittal to the laboratory; and
- Daily information regarding sample collection were recorded on field data sheets. Sample types, sample identification numbers, and sample times were collected and recorded on field data sheets.

COC records were utilized to document sample collection and submittal to the laboratory for analysis. A COC record accompanied all samples submitted for chemical analyses.

Laboratory QA/QC Procedures

Laboratory QA/QC procedures included the following:

- Chemical analyses were performed within the required holding time for all samples;
- A state-certified hazardous waste testing laboratory conducted the required analysis;
- The laboratory provided the following information for each sample:
 - Method blank data;
 - Surrogate recovery, instrument tuning, and calibration data; and
 - Signed laboratory reports including the sample designation, date of sample collection, date of sample analysis, laboratory analytical method employed, sample volume, and the minimum Reporting Limit.

DECONTAMINATION PROCEDURES

Non-dedicated field sampling equipment were cleaned before use, between sample locations, and after completion of fieldwork. Cleaning procedures consisted of a non-phosphate detergent wash, two rinses with tap water, and a final de-ionized water rinse.

FINDINGS

Subsurface Conditions

The soil types encountered at each drill hole location consisted of poorly graded sand (HA-1 – HA-18) and base material comprised of coarse, subangular gravel (HA-19) at the

surface. At the depth of approximately 2 feet silty sand was observed. Evidence of hydrocarbon-containing soil was observed in five drill hole locations (HA-4, HA-6, HA-7, HA-12, HA-14) and unusual odors were observed in five drill hole locations (HA-4, HA-5, HA-6, HA-14, HA-19). The results of chemical analyses conducted on collected soil samples are discussed in the laboratory analytical results section below.

Laboratory Analytical Results

The laboratory analytical results for samples collected at the Project Site are summarized below. For tabulated results, please refer to Table 1 for a summary of analytical results for TPH; Table 2 for the analytical results for VOCs; Table 3 for analytical results for metals; Table 4 for analytical results for pesticides; Table 5 for analytical results for chlorinated herbicides; Table 6 for polychlorinated biphenyls; Table 7 for semi-volatile organic compounds; and Table 8 for reactivity, corrosivity, and ignitability results. Refer to Plate 3 for the drill hole and sample locations with a summary of soil sample analytical results. Copies of the laboratory analytical reports are provided in the attachments as Appendix B.

Total Petroleum Hydrocarbons. TPH concentrations in the gasoline range were indicated in two samples: Sample No. HA-12-5' at 1,300 mg/kg and Sample No. HA-14-2' at 1.3 mg/kg. TPH concentrations in the diesel fuel range were indicated in all soil samples analyzed except for HA-5-2'. The highest TPH as diesel fuel concentrations were indicated at 52,000 mg/kg (HA-7-2'). Motor oil range TPH concentrations were detected in all the soil samples chemically analyzed ranging up to 110,000 mg/kg (HA-7-2') to 2.2 (HA-5-2'). Thirteen of the 19 soil samples were indicated with total TPH concentrations in excess of 1,000 mg/kg.

Volatile Organic Compounds. Detectable VOC concentrations were indicated in three of the soil samples chemically analyzed. Sample No. HA-12-5' contained 1.2 mg/kg of benzene, 4.7 mg/kg of ethylbenzene, 4.9 mg/kg of isopropylbenzene, 4.4 mg/kg of naphthalene, 3.3 mg/kg of n-propylbenzene, 3.5 mg/kg of toluene, 15 mg/kg of 1,2,4-trimethylbenzene, 6.3 mg/kg of 1,3,5-trimethylbenzene, and 21 mg/kg of total xylenes. Sample Nos. HA-14-2' and HA-17-2' also were indicated with low concentrations of several VOCs, including isopropylbenzene, naphthalene, trimethylbenzene, and xylenes.

California-Regulated Metals. Metals concentrations in the samples analyzed were compared to Title 22, California Code of Regulations (CCR) total threshold limit concentration (TTLC) and soluble threshold limit concentrations (STLC). One sample, HA-7-2' was indicated with a total lead concentration of 1,100 mg/kg, which is in excess of the TTLC value of 1,000 mg/kg.

Fifteen samples were additionally analyzed for soluble lead using the California Waste Extraction Test (WET) method to determine whether the samples exceeded the STLC threshold. Seven of the samples additionally analyzed were indicated with soluble lead concentrations in excess of the STLC value of 5 mg/L. Two samples (Sample Nos. HA-9-2' and HA-19-2') were indicated with total copper concentrations greater than 10 times the respective STLC value of 25 mg/L; therefore, the two samples were additionally analyzed for soluble

copper using the WET test. Neither of the two samples were indicated with soluble copper concentrations in excess of the STLC value of 25 mg/L.

Four soil samples (Sample Nos. HA-4-2', HA-11-2', HA-12-5', HA-14-2') were reported with total lead concentration in excess of 20 times the federal TCLP threshold per Title 40 Code of Federal Regulations Section 261.4. The soil sample was additionally analyzed for soluble lead using the TCLP procedure. The samples analyzed were not indicated with soluble lead concentrations in excess of the TCLP value of 5 mg/L. One sample (HA-12-5') was indicated with soluble chromium concentrations in excess of the respective TCLP value of 5 mg/L. Refer to Table 3 – Summary of Soil Analytical Results – Metals.

Chlorinated Pesticides. No concentrations of chlorinated pesticides were indicated in any of the samples analyzed.

Chlorinated Herbicides. Pentachlorophenol was indicated in two samples analyzed (HA-1-0.5' and HA-4-2') at concentrations of 0.0111 and 0.17 mg/kg, respectively. No other chlorinated herbicides were detected in the remaining soil samples.

Polychlorinated Biphenyls. No concentrations of polychlorinated biphenyls (PCBs) were indicated in any of the samples analyzed.

Semi-volatile Organic Compounds. Two soil samples were chemically analyzed for semi-volatile organic compounds (SVOCs) (Sample Nos. HA-7-2' and HA-12-5'). Neither sample was indicated with detectable concentrations of SVOCs.

Reactivity, Corrosivity, and Ignitability. Two soil samples were chemically analyzed for reactive sulfides, reactive cyanides, pH values and ignitability for waste characterization purposes (Sample Nos. HA-7-2' and HA-12-5'). Neither sample was indicated with detectable concentrations of reactive sulfides or cyanides. pH values were reported at 7.2 to 5.9 pH units, respectively. Neither sample was indicated to be ignitable.

QA/QC Results

Standard QA/QC field procedures and laboratory procedures were developed and implemented as part of the site assessment program completed at the Project Site. The primary quality control feature utilized was data validation. The data from each of the chemical analyses were evaluated in the following areas:

- Data completeness;
- Holding times;
- Blanks;
- System monitoring compounds (surrogates);
- Laboratory control standards;
- Matrix spike/matrix spike duplicates (MS/MSD); and
- Compound identification and quantification.

Overall, the data quality is acceptable, and the collected data support the project data quality objectives. Data validation flags have been added to those data that did not meet acceptance criteria (i.e. results were reported with modified detection limits due to sample matrix interference).

CONCLUSIONS AND RECOMMENDATIONS

At the request of APCI, Padre conducted Phase II ESA activities at the Project Site. Based on the results of research, field assessment activities, and chemical analyses conducted on samples collected during this preliminary soil assessment program, Padre makes the following conclusions and recommendations.

Conclusions

Soils containing concentrations of lead in excess of California Title 22 thresholds (total or soluble) were identified along the proposed pipeline alignment at eight of the 19 drill hole locations. Padre concludes that lead-containing soils will be encountered along approximately 1,100 linear feet of the proposed pipeline alignment. Additionally, petroleum hydrocarbon-containing soil at concentrations in excess of 1,000 mg/kg will likely be encountered along the 500 linear feet of the remaining pipeline alignment along the Dominguez Channel.

Recommendations

Soils containing lead in excess of California Title 22 thresholds will require special handling by HAZWOPER-trained workers and disposal at a licensed Class I hazardous waste facility. TPH-containing soil will require off-site disposal at a licensed disposal/recycling facility. Padre recommends the preparation and implementation of a Contaminated Materials Management Plan (CMMP) for the proposed project segments within the Marathon right-of-way. The CMMP should address the procedures and protocols to be followed during excavation of lead- and petroleum hydrocarbon-containing soils, and transportation and disposal requirements for soils that exceed California hazardous waste regulatory thresholds.

LIMITATIONS

This letter-report has been prepared for the sole benefit of APCI. No other persons may rely on the findings of this report without the expressed written consent of the client and Padre Associates, Inc.

In performing our professional services, we have attempted to apply present engineering and scientific judgment and use a level of effort consistent with the standard of practice measured on the date of work and in locale of the Project Site for similar type studies. Padre Associates, Inc. makes no warranty, express or implied.

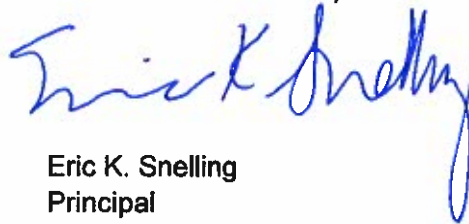
The analyses and interpretations presented in this report have been developed based on the results of the review of existing information pertaining to the Project Site and surrounding areas, soil sampling at the Project Site, and the results of laboratory analyses of the subject samples. It should be recognized that contamination and/or contaminate concentrations can vary between sampling locations and between areas.

CLOSURE

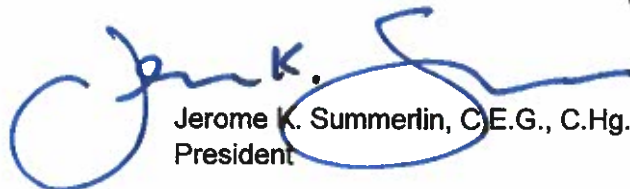
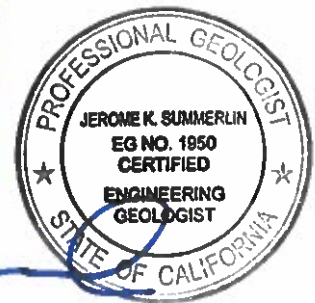
Padre appreciates the opportunity to be of service to APCI on this project. If you have any questions or require additional information, please contact Mr. Eric Snelling at (805) 786-2650, extension 12 or esnelling@padreinc.com.

Sincerely,

PADRE ASSOCIATES, INC.



Eric K. Snelling
Principal



Jerome K. Summerlin, C.E.G., C.Hg.
President

ATTACHMENTS

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- Appendix A – Geologic Logs
- Appendix B – Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

**Table 1 - Summary of Analytical Results
Total Petroleum Hydrocarbons
APCI Pipeline
Carson, California**

Sample ID	Location	TPHg	TPH(DRO)	TPH(ORO)
HA-1-0.5'	0.5	ND	16	47
HA-2-5'	5	ND	1.8	4.4
HA-3-2'	2	ND	1500	3200
HA-4-2'	2	ND	5000	8100
HA-5-2'	2	ND	ND	2.2
HA-6-2'	2	ND	810	2000
HA-7-2'	2	ND	52000	110000
HA-8-2'	2	ND	870	2300
HA-9-2'	2	ND	420	1000
HA-10-2'	2	ND	2000	6600
HA-11-2'	2	ND	840	2200
HA-12-5'	5	1300	45000	85000
HA-13-.5'	0.5	ND	170	470
HA-14-2'	2	1.3	8900	18000
HA-15-2'	2	ND	6.9	11
HA-16-2'	2	ND	6.1	17
HA-17-2'	2	ND	370	710
HA-18-5'	5	ND	9700	24000
HA-19-2'	2	ND	6000	15000

Notes:

All results presented in milligrams per kilogram.

TPH = Total Petroleum Hydrocarbons

Shaded cells indicated results in excess of 1,000 mg/kg of total TPH.

Table 2
Summary of Analytical Results - Volatile Organic Compounds
APCI Pipeline, Carson, California

Sample ID	Depth	Benzene	Bromobenzene	Bromochloroethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromochloromethane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	
HA-1-0.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-2-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-3-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-5-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-6-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-8-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-9-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-10-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-11-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-13-.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-14-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-15-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-16-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-17-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-18-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-19-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
All results in milligrams per kilogram (mg/kg)
ND = not indicated at or above the laboratory reporting limit

Table 2
Summary of Analytical Results - Volatile Organic Compounds
APCI Pipeline, Carson, California

Sample ID	Depth	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	p-Isopropyltoluene	Methlyne Chloride	Methyl-t-butyl ether	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethane	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	Total Xylenes	
HA-1-0.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-2-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-3-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-5-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-6-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-8-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-9-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-10-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-11-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	4.7	ND	4.9	2.3	ND	ND	4.4	33	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	15	6.3	ND	21	
HA-13-.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-14-2'	2	ND	ND	ND	ND	0.0063	ND	ND	ND	0.0072	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015	0.0096	ND	0.0212	
HA-15-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-16-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-17-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-18-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-19-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg)
 ND = not indicated at or above the labor

**Table 3
Summary of Analytical Results - Metals
APCI Pipeline, Carson, California**

Sample ID	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium STLC	Chromium TCLP	Cobalt	Copper	Copper STLC	Lead	Lead STLC	Lead TCLP	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HA-1-0.5'	0.5	ND	14	20	ND	ND	9.7	NA	NA	15	75	NA	3.7	NA	NA	ND	ND	11	ND	ND	ND	85	41
HA-2-5'	5	ND	ND	40	ND	ND	9.5	NA	NA	5.5	22	NA	25	NA	NA	0.11	1.3	7.1	ND	ND	ND	17	76
HA-3-2'	2	ND	8.0	110	ND	ND	20	NA	NA	10	31	NA	4.7	NA	NA	0.46	ND	16	ND	ND	ND	36	50
HA-4-2'	2	ND	ND	120	ND	ND	16	NA	NA	8.9	31	NA	260	ND	0.61	ND	15	ND	ND	ND	ND	30	410
HA-5-2'	2	ND	1.4	120	ND	ND	16	NA	NA	8.8	34	NA	240	ND	ND	ND	ND	15	ND	ND	ND	30	400
HA-6-2'	2	ND	4.0	120	ND	ND	18	NA	NA	8.3	43.0	NA	70	3.5	NA	1.4	ND	16	ND	ND	ND	30	83
HA-7-2'	2	ND	ND	110	ND	ND	13	NA	NA	ND	100	NA	1100	NA	NA	0.69	ND	11	ND	ND	ND	8.8	64
HA-8-2'	2	ND	3.3	98	ND	ND	17	NA	NA	6.3	48	NA	390	ND	ND	0.86	ND	16	ND	ND	ND	24	420
HA-9-2'	2	ND	5.1	110	ND	ND	8.1	NA	NA	3.0	320	24	67	4.7	NA	0.19	7.2	16	ND	ND	ND	29	180
HA-10-2'	2	ND	2.2	220	ND	ND	13	NA	NA	5.4	46	NA	93	5.0	NA	0.95	ND	19	ND	ND	ND	33	240
HA-11-2'	2	ND	12	120	ND	ND	14	NA	NA	7.1	34	NA	350	65	1.1	0.84	ND	14	ND	ND	ND	28	500
HA-12-5'	5	4.2	ND	58	ND	ND	200	39	12	4.4	66	NA	410	26	3.7	0.58	ND	29	ND	ND	ND	15	220
HA-13-.5'	0.5	ND	2.2	240	ND	ND	15	NA	NA	6.7	35	NA	140	10	ND	0.33	ND	16	ND	ND	ND	32	170
HA-14-2'	2	ND	3.6	190	ND	ND	18	NA	NA	7.2	54	NA	800	180	5	1.1	ND	17	ND	ND	ND	32	790
HA-15-2'	2	ND	4.5	150	ND	ND	10	NA	NA	7.6	26	NA	33	NA	NA	0.12	ND	11	ND	ND	ND	26	74
HA-16-2'	2	ND	3.5	150	ND	ND	19	NA	NA	9.8	90	NA	91	8.1	NA	0.11	ND	15	ND	ND	ND	34	140
HA-17-2'	2	ND	4.8	140	ND	ND	20	NA	NA	6.9	130	NA	620	2.3	ND	0.51	ND	17	ND	ND	ND	31	270
HA-18-5'	5	ND	3.2	120	ND	ND	17	NA	NA	9.6	47	NA	66	ND	NA	0.38	ND	17	ND	ND	ND	31	120
HA-19-2'	2	ND	4.2	180	ND	ND	57	NA	NA	7.5	460	23	500	27	ND	0.43	3.3	33	1.1	ND	ND	39	250
	TTL	500	500	10,000	75	100	2,500			8,000	2,500	--	1,000	--	--	20	3,500	2,000	100	500	700	2,400	5,000
	STLC	15	5	100	0.75	1	560			80	25	25	5	5	--	0.2	350	20	1	5	7	24	250
	TCLP	--	5	100	--	1	5			--	--	--	5	--	5	0.2	--	--	1	5	--	--	--

Notes:

All results in milligrams per kilogram (mg/kg), except soluble results which are reported in milligrams per Liter (mg/L).

ND = not indicated at or above the laboratory reporting limit

NA = Not analyzed

Result in **bold** font indicates detection above the laboratory reporting limit

STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

Table 4 - Summary of Sample Analytical Results
Organochlorine Pesticides
APCI Pipeline
Carson, California

Sample ID	Location	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
HA-1-0.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-2-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-3-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-5-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-6-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-8-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-9-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-10-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-11-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-13-.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-14-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-15-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-16-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-17-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-18-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-19-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg/kg).

ND = not indicated at or above the laboratory reporting limit

Result in **bold** font indicates detection above the laboratory reporting limit

Table 5
Summary of Soil Analytical Results - Chlorinated Herbicides
APCI Pipeline,
Carson, California

Sample ID	Location	Acifluorfen	Bentazon	Chloramben	2,4-D	Dalapon	2,4-DB	DCPA diacid	Dicamba	3,5-Dichlorobenzoic Acid	Dichloroprop	Dinoseb	MCPA	MCPP	4-Nitrophenol	Pentachlorophenol	Picloram	2,4,5-T	2,4,5-TP
HA-1-0.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0111	ND	ND	ND
HA-2-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-3-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.17	ND	ND	ND
HA-5-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-6-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-8-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-9-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-10-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-11-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-13-.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-14-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-15-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-16-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-17-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-18-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-19-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg/kg).

ND = not indicated at or above the laboratory reporting limit

Result in **bold** font indicates detection above the laboratory reporting limit

Table 6
Summary of Analytical Results - Polychlorinated Biphenyls
APCI Pipeline
Carson, California

Sample ID	Location	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
HA-1-0.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-2-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-3-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-4-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-5-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-6-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-8-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-9-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-10-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-11-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-13-.5'	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-14-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-15-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-16-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-17-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-18-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-19-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg/kg).

ND = not indicated at or above the laboratory reporting limit

Result in **bold** font indicates detection above the laboratory reporting limit

Table 7
Summary of Soil Analytical Results - Semi-Volatile Organic Compounds
APCI Pipeline
Carson, California

Sample ID	Location	3,3-Dichlorobenzidine	3-Nitroaniline	4,6-Dinitro-2-methylphenol	4-Bromophenyl-phenylether	4-Chloroaniline	4-Chlorophenyl-phenylether	4-Methylphenol	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzidine	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	bis(2-chloroethoxy)methane	bis(2-Chloroethyl)ether	bis(2-chloroisopropyl)ether	bis(2-ethylexy)phthalate	Butylbenzophthalate
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All results in milligrams per kilogram (mg/kg).

ND = not indicated at or above the laboratory reporting limit

Result in **bold** font indicates detection above the laboratory reporting limit

Table 7
Summary of Soil Analytical Results - Semi-Volatile Organic Compounds
APCI Pipeline
Carson, California

Sample ID	Location	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	N-Nitroso-di-n propylamine	N-Nitrosodiphenylamine	Naphthalene	Nitrobenzene	Pentachlorophenol	Phenanthrene	Phenol	Pyrene	Pyridine
HA-7-2'	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HA-12-5'	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
All results in milligrams per kilogram
ND = not indicated at or above the la
Result in **bold** font indicates detectic

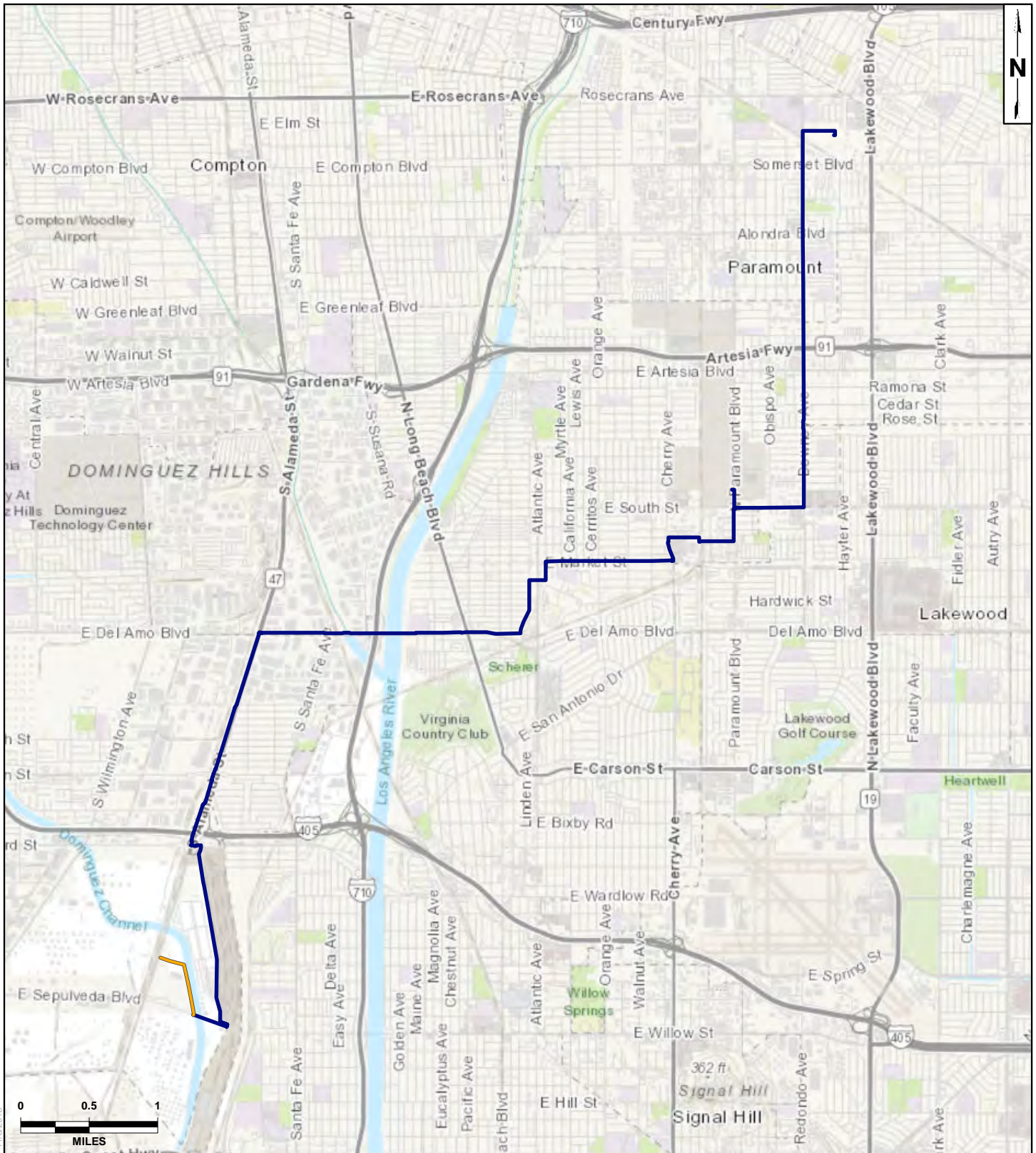
Table 8
Summary of Soil Analytical Results - Reactivity, Corrosivity, and Ignitability
APCI Pipeline
Carson, California

Sample ID	Location	Reactive Sulfides (mg/kg)	Reactive Cyanides (mg/kg)	pH (pH units)	Ignitability (mm/sec)
HA-7-2'	2	ND	ND	7.2	ND
HA-12-5'	5	ND	ND	5.9	ND

Notes:

ND = not indicated at or above the laboratory reporting limit

PLATES



LEGEND:
— Existing Pipeline to be Utilized
— New Pipeline Segment

MAP EXTENT:



Source: Esri Online Basemap, DOGGR
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: This map was created for informational and display purposes only.

padre
 associates, inc.
 ENGINEERS, GEOLOGISTS &
 ENVIRONMENTAL SCIENTISTS

PROJECT NAME: CARSON TO PARAMOUNT HYDROGEN PIPELINE PROJECT LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: September 2019

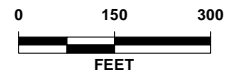
SITE LOCATION MAP

PLATE
1



LEGEND:

- Borehole Location
- Proposed Pipeline
- ▭ Lateral Extent of Lead-Containing Soil
- ▭ Lateral Extent of TPH-Containing Soil



Source: NAIP Image 2016, Paramount Pipeline Co.
 Coordinate System: NAD 1983 StatePlane California V FIPS 0405 Feet
 Notes: TPH = Total Petroleum Hydrocarbons
 This map was created for informational and display purposes only.



PROJECT NAME: CARSON AREA LOS ANGELES COUNTY, CA	
PROJECT NUMBER: 1802-2611	DATE: September 2019

<h1>SOIL ASSESSMENT LOCATIONS</h1>	PLATE 2
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Z:\GIS\Projects\GIS Maps\Map Project\Carson to Paramount Pipeline\Phase II\Work\Print\Soil Assessment Locations.mxd 9/18/2019

APPENDIX A – GEOLOGIC LOGS

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
		Name?		MATERIAL DESCRIPTION	
1				Well-graded SAND (SW) with angular coarse gravel, dense, grayish brown (10YR 5/2), dry, fine to coarse grained, no hydrocarbon odor	0.0
2				Well-graded SAND (SW), light gray (10R 7/1)	
3				Well-graded SAND with angular fine gravel (SW), dense, dark yellowish brown (10YR 4/4), damp, medium grained, no hydrocarbon odor	0.0
4				Refusal at 2.75 feet	
5					

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919_02-24.p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 2.75 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-1
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), loose, grayish brown (10YR 5/2), dry, fine to medium grained, no hydrocarbon odor	0.0
2				Silty SAND (SM), loose, very dark grayish brown (10YR 3/2), damp, fine grained, no hydrocarbon odor	0.0
3					
4				Clayey SAND (SC), medium dense, very dark grayish brown (10YR 3/2), damp, fine grained, slight odor	
5					0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919_0224.p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-2
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Damp	0.0
3					
4					
5				Silty SAND (SM), medium dense, dark grayish brown (10YR 4/2), damp, fine grained, no hydrocarbon odor	1.2

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919 02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-3
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.


ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), loose, dark grayish brown (10YR 4/2), dry, fine grained, no hydrocarbon odor	0.0
2				Black tar-like fragments, damp, slight chemical odor	0.0
3					
4					
5				Brown (10YR 4/2), damp, no tar, no hydrocarbon odor	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-4
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, dark grayish brown (10YR 4/2), dry, fine grained, no hydrocarbon odor	0.0
2				Damp, slight hydrocarbon odor	
3					
4					
5				No hydrocarbon odor	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-5
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
				Poorly graded SAND (SP), medium dense, dark grayish brown (10YR 4/2), dry, fine grained, no hydrocarbon odor	0.0
1				Black, tar-like material, slight hydrocarbon odor	
2				Damp	0.0
3					
4					
5				Silty SAND (SM), loose, grayish brown (10YR 5/2), damp, fine grained, no hydrocarbon odor	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-6
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Black tar-like material	3.3
3				Same as above,	
4					
5				Silty SAND (SM), loose, dark grayish brown (10YR 4/2), damp, fine grained, no hydrocarbon odor	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611 CARSON-PARA_082919.GPJ_082919_0224.p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 5.50 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-7
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Silty SAND (SM), dense, very pale brown (10YR 7/3), dry, fine grained, no hydrocarbon odor	0.0
3					
4					
5				Dark grayish brown (10YR 4/2)	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919 02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-8

Carson to Paramount Hydrogen Pipeline Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Black (10YR 2/1)	0.0
3				Refusal at 2.5 feet	
4					
5					

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919 02:24 p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 2.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-9
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), medium dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Black (10YR 2/1), slight odor	0.0
3					
4				Refusal at 3.5 feet	
5					

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611 CARSON-PARA_082919.GPJ_082919_0224.p. Template: PADRE_SB1

DRILLING DATE: August 15, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 3.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-10
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), dense, gray (10YR 5/1), dry, fine grained, no hydrocarbon odor	0.0
2				Silty SAND (SM), dense, very dark gray (10YR 3/1), damp, fine grained, slight hydrocarbon odor	147
3					
4				Refusal at 4 feet	
5					

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919 02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 4.00 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-11
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Silty SAND (SM), dense, very dark grayish brown (10YR 3/2), damp, fine to medium grained, slight hydrocarbon odor	0.0
3					
4					
5				Black, tar-like substance, strong hydrocarbon odor	1,195

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 5.50 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-12
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
	●●●●●●			MATERIAL DESCRIPTION	
				Poorly graded SAND (SP), dense, brown (10YR 4/3), dry, fine grained, no hydrocarbon odor	0.0
1				Refusal at 0.5 feet	
2					
3					
4					
5					

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919 02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019	DRILLING/SAMPLING METHOD: Hand-Auger
DEPTH TO GROUNDWATER: Not Encountered	DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
COMPLETION DEPTH: 0.50 ft	LOGGED BY: M. Ojeda, P.G.
BACKFILLED WITH: Native Cuttings	CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-13
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California


ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
MATERIAL DESCRIPTION					
1				Poorly graded SAND (SP), dense, brown (10YR 5/3), dry, fine grained, some angular coarse gravel, no hydrocarbon odor	0.0
2				Black, tar-like material, slight hydrocarbon odor	0.0
3					
4					
5				Black, tar-like material ends at 4.5 feet,	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 5.50 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-14
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), dense, dark grayish brown (10YR 4/2), dry, fine grained, no hydrocarbon odor	0.0
2				Damp, warm soil 	2,905
3					
4					
5				Damp, warm soil	2,219

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 5.50 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-15
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP) with coarse angular gravel, dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Silty SAND (SM), medium dense, grayish brown (10YR 3/3), damp, fine grained, no hydrocarbon odor	0.0
3					
4					
5					0.0











Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611_CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-16
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

The log and data presented are a simplification of actual conditions encountered at the time of drilling at the drilled location. Subsurface conditions may differ at other locations and with the passage of time. Please refer to Key to Boring Log for symbol explanation.

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Poorly graded SAND (SP), dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
2				Poorly graded SAND with coarse angular gravel (SP), no hydrocarbon odor	218
3					
4					
5				Poorly graded SAND (SP), no gravel,	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919_0224.p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
DEPTH TO GROUNDWATER: Not Encountered
COMPLETION DEPTH: 5.50 ft
BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
LOGGED BY: M. Ojeda, P.G.
CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-17
Carson to Paramount Hydrogen Pipeline
Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
				Poorly graded SAND with coarse angular gravel (SP), dense, grayish brown (10YR 5/2), dry, fine grained, no hydrocarbon odor	0.0
1				Poorly graded SAND with coarse angular pebbles (SP), grayish brown (10YR 5/2), dry, no hydrocarbon odor	
2				Silty SAND (SM), dense, very dark grayish brown (10YR 3/2), damp, fine grained, no hydrocarbon odor	0.0
3					
4					
5					0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919_0224.p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-18
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

ELEVATION, ft MSL DEPTH, ft	USCS MATERIAL SYMBOL	SAMPLE ID	SAMPLE INTERVAL	LOCATION: SURFACE ELEVATION: ft +/- (relative datum MSL) NORTHING: Not Surveyed EASTING: Not Surveyed COORDINATE SYSTEM: NAD83 SP CA V FIPS 0405 Ft	Gas Monitor: MiniRAE 2000 (ppm)
				MATERIAL DESCRIPTION	
1				Base, coarse subangular gravel	0.0
2				Silty SAND (SM), dense, very dark grayish brown (10YR 3/2), damp, fine grained, no hydrocarbon odor	
3				Slight odor	0.0
4					
5				No odor	0.0

Z:\GINT1-PADRE GINT PROJECTS\1802-2611 CARSON TO PARAMOUNT HYDROGEN PIPELINE\1802-2611-CARSON-PARA_082919.GPJ_082919_02:24 p. Template: PADRE_SB1

DRILLING DATE: August 16, 2019
 DEPTH TO GROUNDWATER: Not Encountered
 COMPLETION DEPTH: 5.50 ft
 BACKFILLED WITH: Native Cuttings

DRILLING/SAMPLING METHOD: Hand-Auger
 DRILLING COMPANY: Strongarm Environmental Field Services, Inc.
 LOGGED BY: M. Ojeda, P.G.
 CHECKED BY: Eric Snelling

LOG OF SOIL BORING HA-19
 Carson to Paramount Hydrogen Pipeline
 Los Angeles County, California

APPENDIX B – LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY DOCUMENTATION



September 13, 2019

Eric Snelling
Padre Associates, Inc.
369 Pacific Street
San Luis Obispo, CA 93401
Tel: (805) 786-2650
Fax:(805) 786-2651

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1903052

Client Reference : Hydrogen Gas Pipeline - Phase II, 1802-2611

Enclosed are the results for sample(s) received on August 15, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edgar Caballero', with a small 'E' or 'A' initial to the left.

Edgar Caballero
President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1-0.5'	1903052-01	Soil	8/15/19 10:00	8/15/19 16:07
HA-2-5'	1903052-05	Soil	8/15/19 10:40	8/15/19 16:07
HA-3-2'	1903052-07	Soil	8/15/19 13:14	8/15/19 16:07
HA-4-2'	1903052-10	Soil	8/15/19 11:22	8/15/19 16:07
HA-5-2'	1903052-13	Soil	8/15/19 11:37	8/15/19 16:07
HA-6-2'	1903052-16	Soil	8/15/19 12:13	8/15/19 16:07
HA-7-2'	1903052-19	Soil	8/15/19 13:45	8/15/19 16:07
HA-8-2'	1903052-22	Soil	8/15/19 14:27	8/15/19 16:07
HA-9-2'	1903052-25	Soil	8/15/19 15:03	8/15/19 16:07
HA-10-2'	1903052-27	Soil	8/15/19 15:25	8/15/19 16:07

CASE NARRATIVE

The samples for Herbicides (EPA 8151) and Reactivity (Cyanide & Sulfide) analyses were subcontracted to AETL with ELAP Cert.# 1541.

The sample for Ignitibility (EPA 1030) analysis was subcontracted to Silver State Laboratories with ELAP # 2990.



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-1-0.5'

Lab ID: 1903052-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Arsenic	14	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Barium	20	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Chromium	9.7	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Cobalt	15	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Copper	75	2.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Lead	3.7	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Molybdenum	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Nickel	11	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Vanadium	84	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	
Zinc	41	1.0	1	B9H0445	08/20/2019	08/23/19 18:48	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B9H0443	08/20/2019	08/21/19 18:36	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0368	08/16/2019	08/16/19 09:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>45 - 149</i>		B9H0368	08/16/2019	<i>08/16/19 09:51</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	16	1.0	1	B9H0453	08/20/2019	08/20/19 23:00	
ORO	47	1.0	1	B9H0453	08/20/2019	08/20/19 23:00	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-1-0.5'

Lab ID: 1903052-01

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	63.2 %	34 - 158		B9H0453	08/20/2019	08/20/19 23:00	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
4,4'-DDE	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
4,4'-DDT	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Aldrin	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
alpha-BHC	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
alpha-Chlordane	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
beta-BHC	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Chlordane	ND	17	2	B9H0433	08/19/2019	08/21/19 10:19	D1
delta-BHC	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Dieldrin	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endosulfan I	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endosulfan II	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endosulfan sulfate	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endrin	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endrin aldehyde	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Endrin ketone	ND	4.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
gamma-BHC	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
gamma-Chlordane	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Heptachlor	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Heptachlor epoxide	ND	2.0	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Methoxychlor	ND	10	2	B9H0433	08/19/2019	08/21/19 10:19	D1
Toxaphene	ND	100	2	B9H0433	08/19/2019	08/21/19 10:19	D1
<i>Surrogate: Decachlorobiphenyl</i>	74.2 %	32 - 91		B9H0433	08/19/2019	08/21/19 10:19	
<i>Surrogate: Tetrachloro-m-xylene</i>	87.1 %	38 - 93		B9H0433	08/19/2019	08/21/19 10:19	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-1-0.5'

Lab ID: 1903052-01

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1221	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1232	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1242	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1248	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1254	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1260	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1262	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
Aroclor 1268	ND	16	1	B9H0433	08/19/2019	08/21/19 10:43	
<i>Surrogate: Decachlorobiphenyl</i>	71.9 %	40 - 121		B9H0433	08/19/2019	08/21/19 10:43	
<i>Surrogate: Tetrachloro-m-xylene</i>	74.6 %	55 - 105		B9H0433	08/19/2019	08/21/19 10:43	

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1,1-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1,2-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,1-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2,3-Trichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2-Dibromoethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,3-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,3-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
1,4-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
2,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-1-0.5'

Lab ID: 1903052-01

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
4-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
4-Isopropyltoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Benzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Bromobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Bromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Bromodichloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Bromoform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Bromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Carbon disulfide	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Carbon tetrachloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Chlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Chloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Chloroform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Chloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Di-isopropyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Dibromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Dibromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Dichlorodifluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Ethyl Acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 15:35	
Ethyl Ether	ND	50	1	B9H0364	08/16/2019	08/16/19 15:35	
Ethyl tert-butyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Ethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Freon-113	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Hexachlorobutadiene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Isopropylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
m,p-Xylene	ND	10	1	B9H0364	08/16/2019	08/16/19 15:35	
Methylene chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
MTBE	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
n-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
n-Propylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Naphthalene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
o-Xylene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
sec-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Styrene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-1-0.5'

Lab ID: 1903052-01

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
tert-Butanol	ND	100	1	B9H0364	08/16/2019	08/16/19 15:35	
tert-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Tetrachloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Toluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Trichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Trichlorofluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
Vinyl acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 15:35	
Vinyl chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:35	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>93.7 %</i>	<i>60 - 145</i>		B9H0364	08/16/2019	<i>08/16/19 15:35</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.1 %</i>	<i>68 - 121</i>		B9H0364	08/16/2019	<i>08/16/19 15:35</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>65 - 137</i>		B9H0364	08/16/2019	<i>08/16/19 15:35</i>	
<i>Surrogate: Toluene-d8</i>	<i>88.2 %</i>	<i>82 - 119</i>		B9H0364	08/16/2019	<i>08/16/19 15:35</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-2-5'

Lab ID: 1903052-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Arsenic	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Barium	40	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Chromium	9.5	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Cobalt	5.5	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Copper	22	2.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Lead	25	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Molybdenum	1.3	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Nickel	7.1	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Vanadium	17	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	
Zinc	76	1.0	1	B9H0445	08/20/2019	08/23/19 18:49	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.11	0.10	1	B9H0443	08/20/2019	08/21/19 18:38	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0368	08/16/2019	08/16/19 10:10	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>45 - 149</i>		B9H0368	08/16/2019	<i>08/16/19 10:10</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.8	1.0	1	B9H0453	08/20/2019	08/20/19 22:43	
ORO	4.4	1.0	1	B9H0453	08/20/2019	08/20/19 22:43	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-2-5'

Lab ID: 1903052-05

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	68.7 %	34 - 158		B9H0453	08/20/2019	08/20/19 22:43	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
4,4'-DDE	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
4,4'-DDT	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Aldrin	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
alpha-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
alpha-Chlordane	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
beta-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Chlordane	ND	8.5	1	B9H0433	08/19/2019	08/21/19 10:30	
delta-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Dieldrin	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endosulfan I	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endosulfan II	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endosulfan sulfate	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endrin	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endrin aldehyde	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Endrin ketone	ND	2.0	1	B9H0433	08/19/2019	08/21/19 10:30	
gamma-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
gamma-Chlordane	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Heptachlor	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Heptachlor epoxide	ND	1.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Methoxychlor	ND	5.0	1	B9H0433	08/19/2019	08/21/19 10:30	
Toxaphene	ND	50	1	B9H0433	08/19/2019	08/21/19 10:30	
<i>Surrogate: Decachlorobiphenyl</i>	38.4 %	32 - 91		B9H0433	08/19/2019	08/21/19 10:30	
<i>Surrogate: Tetrachloro-m-xylene</i>	62.7 %	38 - 93		B9H0433	08/19/2019	08/21/19 10:30	



Certificate of Analysis

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369 Pacific Street
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-2-5'

Lab ID: 1903052-05

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1221	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1232	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1242	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1248	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1254	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1260	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1262	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
Aroclor 1268	ND	16	1	B9H0433	08/19/2019	08/21/19 11:02	
<i>Surrogate: Decachlorobiphenyl</i>	<i>40.5 %</i>	<i>40 - 121</i>		B9H0433	08/19/2019	<i>08/21/19 11:02</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>61.3 %</i>	<i>55 - 105</i>		B9H0433	08/19/2019	<i>08/21/19 11:02</i>	

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1,1-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1,2-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,1-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2,3-Trichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2-Dibromoethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,3-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,3-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
1,4-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
2,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-2-5'

Lab ID: 1903052-05

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
4-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
4-Isopropyltoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Benzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Bromobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Bromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Bromodichloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Bromoform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Bromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Carbon disulfide	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Carbon tetrachloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Chlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Chloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Chloroform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Chloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Di-isopropyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Dibromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Dibromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Dichlorodifluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Ethyl Acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 15:53	
Ethyl Ether	ND	50	1	B9H0364	08/16/2019	08/16/19 15:53	
Ethyl tert-butyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Ethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Freon-113	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Hexachlorobutadiene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Isopropylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
m,p-Xylene	ND	10	1	B9H0364	08/16/2019	08/16/19 15:53	
Methylene chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
MTBE	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
n-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
n-Propylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Naphthalene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
o-Xylene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
sec-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Styrene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-2-5'

Lab ID: 1903052-05

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
tert-Butanol	ND	100	1	B9H0364	08/16/2019	08/16/19 15:53	
tert-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Tetrachloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Toluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Trichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Trichlorofluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
Vinyl acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 15:53	
Vinyl chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 15:53	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>	<i>60 - 145</i>		B9H0364	08/16/2019	<i>08/16/19 15:53</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.3 %</i>	<i>68 - 121</i>		B9H0364	08/16/2019	<i>08/16/19 15:53</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>65 - 137</i>		B9H0364	08/16/2019	<i>08/16/19 15:53</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.5 %</i>	<i>82 - 119</i>		B9H0364	08/16/2019	<i>08/16/19 15:53</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-3-2'

Lab ID: 1903052-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Arsenic	8.0	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Barium	110	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Chromium	20	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Cobalt	10	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Copper	31	2.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Lead	4.7	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Molybdenum	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Nickel	16	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Vanadium	36	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	
Zinc	50	1.0	1	B9H0445	08/20/2019	08/23/19 18:50	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.46	0.10	1	B9H0443	08/20/2019	08/21/19 18:40	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0368	08/16/2019	08/16/19 10:28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100 %</i>	<i>45 - 149</i>		B9H0368	08/16/2019	<i>08/16/19 10:28</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1500	50	50	B9H0453	08/20/2019	08/21/19 10:23	
ORO	3200	50	50	B9H0453	08/20/2019	08/21/19 10:23	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-3-2'

Lab ID: 1903052-07

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	0%	34 - 158		B9H0453	08/20/2019	08/21/19 10:23	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
4,4'-DDE	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
4,4'-DDT	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Aldrin	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
alpha-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
alpha-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
beta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Chlordane	ND	170	20	B9H0433	08/19/2019	08/21/19 10:41	D1
delta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Dieldrin	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endosulfan I	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endosulfan II	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endosulfan sulfate	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endrin	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endrin aldehyde	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Endrin ketone	ND	40	20	B9H0433	08/19/2019	08/21/19 10:41	D1
gamma-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
gamma-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Heptachlor	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Heptachlor epoxide	ND	20	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Methoxychlor	ND	100	20	B9H0433	08/19/2019	08/21/19 10:41	D1
Toxaphene	ND	1000	20	B9H0433	08/19/2019	08/21/19 10:41	D1
<i>Surrogate: Decachlorobiphenyl</i>	36.6 %	32 - 91		B9H0433	08/19/2019	08/21/19 10:41	
<i>Surrogate: Tetrachloro-m-xylene</i>	38.8 %	38 - 93		B9H0433	08/19/2019	08/21/19 10:41	



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-3-2'

Lab ID: 1903052-07

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 13:29	D1
<i>Surrogate: Decachlorobiphenyl</i>	654 %	40 - 121		B9H0433	08/19/2019	08/21/19 13:29	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	28.4 %	55 - 105		B9H0433	08/19/2019	08/21/19 13:29	S10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1,1-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1,2-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,1-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2,3-Trichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2-Dibromoethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,3-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,3-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
1,4-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
2,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-3-2'

Lab ID: 1903052-07

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
4-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
4-Isopropyltoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Benzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Bromobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Bromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Bromodichloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Bromoform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Bromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Carbon disulfide	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Carbon tetrachloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Chlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Chloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Chloroform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Chloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Di-isopropyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Dibromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Dibromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Dichlorodifluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Ethyl Acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 16:38	
Ethyl Ether	ND	50	1	B9H0364	08/16/2019	08/16/19 16:38	
Ethyl tert-butyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Ethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Freon-113	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Hexachlorobutadiene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Isopropylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
m,p-Xylene	ND	10	1	B9H0364	08/16/2019	08/16/19 16:38	
Methylene chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
MTBE	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
n-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
n-Propylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Naphthalene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
o-Xylene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
sec-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Styrene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-3-2'

Lab ID: 1903052-07

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
tert-Butanol	ND	100	1	B9H0364	08/16/2019	08/16/19 16:38	
tert-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Tetrachloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Toluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Trichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Trichlorofluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
Vinyl acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 16:38	
Vinyl chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>60 - 145</i>		B9H0364	08/16/2019	<i>08/16/19 16:38</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.6 %</i>	<i>68 - 121</i>		B9H0364	08/16/2019	<i>08/16/19 16:38</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	<i>65 - 137</i>		B9H0364	08/16/2019	<i>08/16/19 16:38</i>	
<i>Surrogate: Toluene-d8</i>	<i>94.8 %</i>	<i>82 - 119</i>		B9H0364	08/16/2019	<i>08/16/19 16:38</i>	



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Client Sample ID: HA-4-2'

Lab ID: 1903052-10

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Arsenic	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Barium	120	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Beryllium	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Cadmium	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Chromium	16	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Cobalt	8.9	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Copper	31	4.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Lead	260	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Molybdenum	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Nickel	15	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Selenium	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Silver	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Thallium	ND	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Vanadium	30	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6
Zinc	410	2.0	2	B9H0445	08/20/2019	08/26/19 12:03	D6

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.61	0.25	5	B9I0306	09/10/2019	09/11/19 12:23	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	1.0	20	B9I0350	09/11/2019	09/12/19 14:10	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B9H0443	08/20/2019	08/21/19 18:42	



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Client Sample ID: HA-4-2'

Lab ID: 1903052-10

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0368	08/16/2019	08/16/19 10:47	
Surrogate: 4-Bromofluorobenzene	122 %	45 - 149		B9H0368	08/16/2019	08/16/19 10:47	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5000	100	100	B9H0453	08/20/2019	08/21/19 10:40	
ORO	8100	100	100	B9H0453	08/20/2019	08/21/19 10:40	
Surrogate: p-Terphenyl	0%	34 - 158		B9H0453	08/20/2019	08/21/19 10:40	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
4,4'-DDE	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
4,4'-DDT	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Aldrin	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
alpha-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
alpha-Chlordane	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
beta-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Chlordane	ND	85	10	B9H0433	08/19/2019	08/21/19 10:52	D1
delta-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Dieldrin	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endosulfan I	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endosulfan II	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endosulfan sulfate	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endrin	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endrin aldehyde	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Endrin ketone	ND	20	10	B9H0433	08/19/2019	08/21/19 10:52	D1
gamma-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
gamma-Chlordane	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Heptachlor	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Heptachlor epoxide	ND	10	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Methoxychlor	ND	50	10	B9H0433	08/19/2019	08/21/19 10:52	D1
Toxaphene	ND	500	10	B9H0433	08/19/2019	08/21/19 10:52	D1



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Client Sample ID: HA-4-2'

Lab ID: 1903052-10

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Decachlorobiphenyl</i>	32.7 %	32 - 91		B9H0433	08/19/2019	08/21/19 10:52	
<i>Surrogate: Tetrachloro-m-xylene</i>	38.1 %	38 - 93		B9H0433	08/19/2019	08/21/19 10:52	

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 13:48	D1
<i>Surrogate: Decachlorobiphenyl</i>	51.0 %	40 - 121		B9H0433	08/19/2019	08/21/19 13:48	
<i>Surrogate: Tetrachloro-m-xylene</i>	34.2 %	55 - 105		B9H0433	08/19/2019	08/21/19 13:48	S10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1,1-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1,2-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,1-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2,3-Trichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2-Dibromoethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-4-2'

Lab ID: 1903052-10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,3-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,3-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
1,4-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
2,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
2-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
4-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
4-Isopropyltoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Benzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Bromobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Bromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Bromodichloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Bromoform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Bromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Carbon disulfide	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Carbon tetrachloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Chlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Chloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Chloroform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Chloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Di-isopropyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Dibromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Dibromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Dichlorodifluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Ethyl Acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 16:57	
Ethyl Ether	ND	50	1	B9H0364	08/16/2019	08/16/19 16:57	
Ethyl tert-butyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Ethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Freon-113	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Hexachlorobutadiene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Isopropylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
m,p-Xylene	ND	10	1	B9H0364	08/16/2019	08/16/19 16:57	
Methylene chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-4-2'

Lab ID: 1903052-10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
n-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
n-Propylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Naphthalene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
o-Xylene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
sec-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Styrene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
tert-Amyl methyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
tert-Butanol	ND	100	1	B9H0364	08/16/2019	08/16/19 16:57	
tert-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Tetrachloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Toluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Trichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Trichlorofluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
Vinyl acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 16:57	
Vinyl chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 16:57	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.0 %</i>	<i>60 - 145</i>		B9H0364	08/16/2019	<i>08/16/19 16:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.5 %</i>	<i>68 - 121</i>		B9H0364	08/16/2019	<i>08/16/19 16:57</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>65 - 137</i>		B9H0364	08/16/2019	<i>08/16/19 16:57</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.4 %</i>	<i>82 - 119</i>		B9H0364	08/16/2019	<i>08/16/19 16:57</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-5-2'

Lab ID: 1903052-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Arsenic	1.4	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Barium	120	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Chromium	16	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Cobalt	8.8	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Copper	34	2.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Lead	240	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Molybdenum	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Nickel	15	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Vanadium	30	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	
Zinc	400	1.0	1	B9H0445	08/20/2019	08/23/19 18:53	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	5	B9I0306	09/10/2019	09/11/19 12:28	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	1.0	20	B9I0350	09/11/2019	09/12/19 14:17	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B9H0443	08/20/2019	08/21/19 18:45	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-5-2'

Lab ID: 1903052-13

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0368	08/16/2019	08/16/19 11:06	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>45 - 149</i>		B9H0368	08/16/2019	<i>08/16/19 11:06</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	1.0	1	B9H0453	08/20/2019	08/20/19 22:25	
ORO	2.2	1.0	1	B9H0453	08/20/2019	08/20/19 22:25	
<i>Surrogate: p-Terphenyl</i>	<i>74.3 %</i>	<i>34 - 158</i>		B9H0453	08/20/2019	<i>08/20/19 22:25</i>	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
4,4'-DDE	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
4,4'-DDT	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Aldrin	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
alpha-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
alpha-Chlordane	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
beta-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Chlordane	ND	8.5	1	B9H0433	08/19/2019	08/21/19 11:02	
delta-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Dieldrin	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endosulfan I	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endosulfan II	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endosulfan sulfate	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endrin	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endrin aldehyde	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Endrin ketone	ND	2.0	1	B9H0433	08/19/2019	08/21/19 11:02	
gamma-BHC	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
gamma-Chlordane	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Heptachlor	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Heptachlor epoxide	ND	1.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Methoxychlor	ND	5.0	1	B9H0433	08/19/2019	08/21/19 11:02	
Toxaphene	ND	50	1	B9H0433	08/19/2019	08/21/19 11:02	



Certificate of Analysis

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San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-5-2'

Lab ID: 1903052-13

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	51.5 %	32 - 91		B9H0433	08/19/2019	08/21/19 11:02	
Surrogate: Tetrachloro-m-xylene	67.8 %	38 - 93		B9H0433	08/19/2019	08/21/19 11:02	

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 14:06	D1
Surrogate: Decachlorobiphenyl	92.5 %	40 - 121		B9H0433	08/19/2019	08/21/19 14:06	
Surrogate: Tetrachloro-m-xylene	68.2 %	55 - 105		B9H0433	08/19/2019	08/21/19 14:06	

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1,1-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1,2-Trichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,1-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2,3-Trichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2-Dibromoethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-5-2'

Lab ID: 1903052-13

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,3-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,3-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
1,4-Dichlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
2,2-Dichloropropane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
2-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
4-Chlorotoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
4-Isopropyltoluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Benzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Bromobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Bromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Bromodichloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Bromoform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Bromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Carbon disulfide	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Carbon tetrachloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Chlorobenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Chloroethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Chloroform	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Chloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Di-isopropyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Dibromochloromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Dibromomethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Dichlorodifluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Ethyl Acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 17:16	
Ethyl Ether	ND	50	1	B9H0364	08/16/2019	08/16/19 17:16	
Ethyl tert-butyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Ethylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Freon-113	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Hexachlorobutadiene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Isopropylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
m,p-Xylene	ND	10	1	B9H0364	08/16/2019	08/16/19 17:16	
Methylene chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-5-2'

Lab ID: 1903052-13

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
n-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
n-Propylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Naphthalene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
o-Xylene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
sec-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Styrene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
tert-Amyl methyl ether	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
tert-Butanol	ND	100	1	B9H0364	08/16/2019	08/16/19 17:16	
tert-Butylbenzene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Tetrachloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Toluene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Trichloroethene	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Trichlorofluoromethane	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
Vinyl acetate	ND	50	1	B9H0364	08/16/2019	08/16/19 17:16	
Vinyl chloride	ND	5.0	1	B9H0364	08/16/2019	08/16/19 17:16	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.5 %</i>	<i>60 - 145</i>		B9H0364	08/16/2019	<i>08/16/19 17:16</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.5 %</i>	<i>68 - 121</i>		B9H0364	08/16/2019	<i>08/16/19 17:16</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	<i>65 - 137</i>		B9H0364	08/16/2019	<i>08/16/19 17:16</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.8 %</i>	<i>82 - 119</i>		B9H0364	08/16/2019	<i>08/16/19 17:16</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-6-2'

Lab ID: 1903052-16

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Arsenic	4.0	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Barium	120	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Chromium	18	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Cobalt	8.3	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Copper	43	2.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Lead	70	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Molybdenum	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Nickel	16	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Vanadium	30	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	
Zinc	83	1.0	1	B9H0445	08/20/2019	08/23/19 18:56	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.5	1.0	20	B9I0350	09/11/2019	09/12/19 14:19	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	1.4	0.10	1	B9H0443	08/20/2019	08/22/19 10:11	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0386	08/16/2019	08/16/19 17:52	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>45 - 149</i>		B9H0386	08/16/2019	08/16/19 17:52	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-6-2'

Lab ID: 1903052-16

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	810	20	20	B9H0453	08/20/2019	08/21/19 00:44	
ORO	2000	20	20	B9H0453	08/20/2019	08/21/19 00:44	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0453	08/20/2019	<i>08/21/19 00:44</i>	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
4,4'-DDE	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
4,4'-DDT	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Aldrin	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
alpha-BHC	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
alpha-Chlordane	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
beta-BHC	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Chlordane	ND	850	100	B9H0433	08/19/2019	08/21/19 11:46	D1
delta-BHC	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Dieldrin	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endosulfan I	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endosulfan II	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endosulfan sulfate	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endrin	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endrin aldehyde	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Endrin ketone	ND	200	100	B9H0433	08/19/2019	08/21/19 11:46	D1
gamma-BHC	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
gamma-Chlordane	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Heptachlor	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Heptachlor epoxide	ND	100	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Methoxychlor	ND	500	100	B9H0433	08/19/2019	08/21/19 11:46	D1
Toxaphene	ND	5000	100	B9H0433	08/19/2019	08/21/19 11:46	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>0%</i>	<i>32 - 91</i>		B9H0433	08/19/2019	<i>08/21/19 11:46</i>	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0%</i>	<i>38 - 93</i>		B9H0433	08/19/2019	<i>08/21/19 11:46</i>	S4



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-6-2'

Lab ID: 1903052-16

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1221	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1232	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1242	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1248	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1254	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1260	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1262	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
Aroclor 1268	ND	800	50	B9H0433	08/19/2019	08/21/19 14:44	D1
<i>Surrogate: Decachlorobiphenyl</i>	0%	40 - 121		B9H0433	08/19/2019	08/21/19 14:44	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	55 - 105		B9H0433	08/19/2019	08/21/19 14:44	S4

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1,1-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1,2-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,1-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2,3-Trichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2-Dibromoethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,3-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,3-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
1,4-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
2,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-6-2'

Lab ID: 1903052-16

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
4-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
4-Isopropyltoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Benzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Bromobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Bromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Bromodichloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Bromoform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Bromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Carbon disulfide	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Carbon tetrachloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Chlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Chloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Chloroform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Chloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Di-isopropyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Dibromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Dibromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Dichlorodifluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Ethyl Acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 19:55	
Ethyl Ether	ND	50	1	B9H0396	08/18/2019	08/18/19 19:55	
Ethyl tert-butyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Ethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Freon-113	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Hexachlorobutadiene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Isopropylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
m,p-Xylene	ND	10	1	B9H0396	08/18/2019	08/18/19 19:55	
Methylene chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
MTBE	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
n-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
n-Propylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Naphthalene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
o-Xylene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
sec-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Styrene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-6-2'

Lab ID: 1903052-16

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
tert-Butanol	ND	100	1	B9H0396	08/18/2019	08/18/19 19:55	
tert-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Tetrachloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Toluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Trichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Trichlorofluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
Vinyl acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 19:55	
Vinyl chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 19:55	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>60 - 145</i>		B9H0396	08/18/2019	<i>08/18/19 19:55</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.0 %</i>	<i>68 - 121</i>		B9H0396	08/18/2019	<i>08/18/19 19:55</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>	<i>65 - 137</i>		B9H0396	08/18/2019	<i>08/18/19 19:55</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.5 %</i>	<i>82 - 119</i>		B9H0396	08/18/2019	<i>08/18/19 19:55</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	10	5	B9H0445	08/20/2019	08/23/19 18:58	
Arsenic	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Barium	110	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Beryllium	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Cadmium	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Chromium	13	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Cobalt	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Copper	100	10	5	B9H0445	08/20/2019	08/23/19 18:58	
Lead	1100	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Molybdenum	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Nickel	11	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Selenium	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Silver	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Thallium	ND	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Vanadium	8.8	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	
Zinc	64	5.0	5	B9H0445	08/20/2019	08/23/19 18:58	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.69	0.10	1	B9H0443	08/20/2019	08/22/19 10:13	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0386	08/16/2019	08/16/19 18:10	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.6 %</i>	<i>45 - 149</i>		B9H0386	08/16/2019	<i>08/16/19 18:10</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	52000	1000	100	B9H0453	08/20/2019	08/21/19 02:10	
ORO	110000	1000	100	B9H0453	08/20/2019	08/21/19 02:10	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	0%	34 - 158		B9H0453	08/20/2019	08/21/19 02:10	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
4,4'-DDE	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
4,4'-DDT	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Aldrin	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
alpha-BHC	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
alpha-Chlordane	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
beta-BHC	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Chlordane	ND	1700	200	B9H0433	08/19/2019	08/21/19 11:57	D1
delta-BHC	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Dieldrin	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endosulfan I	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endosulfan II	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endosulfan sulfate	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endrin	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endrin aldehyde	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Endrin ketone	ND	400	200	B9H0433	08/19/2019	08/21/19 11:57	D1
gamma-BHC	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
gamma-Chlordane	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Heptachlor	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Heptachlor epoxide	ND	200	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Methoxychlor	ND	1000	200	B9H0433	08/19/2019	08/21/19 11:57	D1
Toxaphene	ND	10000	200	B9H0433	08/19/2019	08/21/19 11:57	D1
<i>Surrogate: Decachlorobiphenyl</i>	0%	32 - 91		B9H0433	08/19/2019	08/21/19 11:57	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	38 - 93		B9H0433	08/19/2019	08/21/19 11:57	S4



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Lab ID: 1903052-19

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1221	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1232	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1242	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1248	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1254	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1260	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1262	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
Aroclor 1268	ND	800	50	B9H0433	08/19/2019	08/21/19 15:03	D1
<i>Surrogate: Decachlorobiphenyl</i>	0%	40 - 121		B9H0433	08/19/2019	08/21/19 15:03	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	55 - 105		B9H0433	08/19/2019	08/21/19 15:03	S4

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1,1-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1,2-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,1-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2,3-Trichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2-Dibromoethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,3-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,3-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
1,4-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
2,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	



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Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
4-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
4-Isopropyltoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Benzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Bromobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Bromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Bromodichloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Bromoform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Bromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Carbon disulfide	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Carbon tetrachloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Chlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Chloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Chloroform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Chloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Di-isopropyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Dibromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Dibromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Dichlorodifluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Ethyl Acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:14	
Ethyl Ether	ND	50	1	B9H0396	08/18/2019	08/18/19 20:14	
Ethyl tert-butyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Ethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Freon-113	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Hexachlorobutadiene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Isopropylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
m,p-Xylene	ND	10	1	B9H0396	08/18/2019	08/18/19 20:14	
Methylene chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
MTBE	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
n-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
n-Propylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Naphthalene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
o-Xylene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
sec-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Styrene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	



Certificate of Analysis

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Reported : 09/13/2019

Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
tert-Butanol	ND	100	1	B9H0396	08/18/2019	08/18/19 20:14	
tert-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Tetrachloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Toluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Trichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Trichlorofluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
Vinyl acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:14	
Vinyl chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:14	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>60 - 145</i>		B9H0396	08/18/2019	<i>08/18/19 20:14</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>68 - 121</i>		B9H0396	08/18/2019	<i>08/18/19 20:14</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>	<i>65 - 137</i>		B9H0396	08/18/2019	<i>08/18/19 20:14</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.5 %</i>	<i>82 - 119</i>		B9H0396	08/18/2019	<i>08/18/19 20:14</i>	

Semivolatile Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
1,2-Dichlorobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
1,3-Dichlorobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
1,4-Dichlorobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4,5-Trichlorophenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4,6-Trichlorophenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4-Dichlorophenol	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4-Dimethylphenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4-Dinitrophenol	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,4-Dinitrotoluene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2,6-Dinitrotoluene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Chloronaphthalene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Chlorophenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Methylnaphthalene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Methylphenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Nitroaniline	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
2-Nitrophenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1



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Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Semivolatile Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3,3'-Dichlorobenzidine	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
3-Nitroaniline	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4,6-Dinitro-2-methyphenol	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Bromophenyl-phenylether	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Chloro-3-methylphenol	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Chloroaniline	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Chlorophenyl-phenylether	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Methylphenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Nitroaniline	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
4-Nitrophenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Acenaphthene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Acenaphthylene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Anthracene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzidine (M)	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzo(a)anthracene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzo(a)pyrene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzo(b)fluoranthene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzo(g,h,i)perylene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzo(k)fluoranthene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzoic acid	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Benzyl alcohol	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
bis(2-chloroethoxy)methane	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
bis(2-Chloroethyl)ether	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
bis(2-chloroisopropyl)ether	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
bis(2-ethylhexyl)phthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Butylbenzylphthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Chrysene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Di-n-butylphthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Di-n-octylphthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Dibenz(a,h)anthracene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Dibenzofuran	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Diethyl phthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Dimethyl phthalate	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Fluoranthene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Fluorene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Hexachlorobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Hexachlorobutadiene	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-7-2'

Lab ID: 1903052-19

Semivolatle Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Hexachlorocyclopentadiene	ND	130000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Hexachloroethane	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Indeno(1,2,3-cd)pyrene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Isophorone	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
N-Nitroso-di-n propylamine	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
N-Nitrosodiphenylamine	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Naphthalene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Nitrobenzene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Pentachlorophenol	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Phenanthrene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Phenol	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Pyrene	ND	66000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
Pyridine	ND	330000	200	B9H0469	08/20/2019	08/20/19 19:27	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>28 - 77</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>17 - 157</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>35 - 98</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>	<i>35 - 88</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>	<i>32 - 88</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>	<i>35 - 114</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>	<i>27 - 80</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>	<i>35 - 98</i>		B9H0469	08/20/2019	<i>08/20/19 19:27</i>	<i>S4</i>

pH by EPA 9045C

Analyst: DT

Analyte	Result (pH Units)	PQL (pH Units)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
pH	7.2	0.10	1	B9H0379	08/16/2019	08/16/19 13:35	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-8-2'

Lab ID: 1903052-22

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	4.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Arsenic	3.3	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Barium	98	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Beryllium	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Cadmium	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Chromium	17	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Cobalt	6.3	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Copper	48	4.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Lead	390	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Molybdenum	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Nickel	16	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Selenium	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Silver	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Thallium	ND	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Vanadium	24	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	
Zinc	420	2.0	1	B9H0445	08/20/2019	08/23/19 18:59	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	5	B9I0306	09/10/2019	09/11/19 12:29	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	1.0	20	B9I0350	09/11/2019	09/12/19 14:20	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.86	0.10	1	B9H0443	08/20/2019	08/22/19 10:15	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-8-2'

Lab ID: 1903052-22

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0386	08/16/2019	08/16/19 18:29	
Surrogate: 4-Bromofluorobenzene	102 %	45 - 149		B9H0386	08/16/2019	08/16/19 18:29	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	870	20	20	B9H0453	08/20/2019	08/21/19 01:19	
ORO	2300	20	20	B9H0453	08/20/2019	08/21/19 01:19	
Surrogate: p-Terphenyl	0%	34 - 158		B9H0453	08/20/2019	08/21/19 01:19	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
4,4'-DDE	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
4,4'-DDT	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Aldrin	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
alpha-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
alpha-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
beta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Chlordane	ND	170	20	B9H0433	08/19/2019	08/21/19 11:13	D1
delta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Dieldrin	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endosulfan I	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endosulfan II	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endosulfan sulfate	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endrin	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endrin aldehyde	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Endrin ketone	ND	40	20	B9H0433	08/19/2019	08/21/19 11:13	D1
gamma-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
gamma-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Heptachlor	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Heptachlor epoxide	ND	20	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Methoxychlor	ND	100	20	B9H0433	08/19/2019	08/21/19 11:13	D1
Toxaphene	ND	1000	20	B9H0433	08/19/2019	08/21/19 11:13	D1



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-8-2'

Lab ID: 1903052-22

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	58.3 %	32 - 91		B9H0433	08/19/2019	08/21/19 11:13	
Surrogate: Tetrachloro-m-xylene	42.4 %	38 - 93		B9H0433	08/19/2019	08/21/19 11:13	

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 12:32	D1
Surrogate: Decachlorobiphenyl	60.3 %	40 - 121		B9H0433	08/19/2019	08/21/19 12:32	
Surrogate: Tetrachloro-m-xylene	41.5 %	55 - 105		B9H0433	08/19/2019	08/21/19 12:32	S10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1,1-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1,2-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,1-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2,3-Trichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2-Dibromoethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-8-2'

Lab ID: 1903052-22

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,3-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,3-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
1,4-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
2,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
2-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
4-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
4-Isopropyltoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Benzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Bromobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Bromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Bromodichloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Bromoform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Bromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Carbon disulfide	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Carbon tetrachloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Chlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Chloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Chloroform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Chloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Di-isopropyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Dibromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Dibromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Dichlorodifluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Ethyl Acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:33	
Ethyl Ether	ND	50	1	B9H0396	08/18/2019	08/18/19 20:33	
Ethyl tert-butyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Ethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Freon-113	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Hexachlorobutadiene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Isopropylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
m,p-Xylene	ND	10	1	B9H0396	08/18/2019	08/18/19 20:33	
Methylene chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-8-2'

Lab ID: 1903052-22

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
n-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
n-Propylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Naphthalene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
o-Xylene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
sec-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Styrene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
tert-Amyl methyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
tert-Butanol	ND	100	1	B9H0396	08/18/2019	08/18/19 20:33	
tert-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Tetrachloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Toluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Trichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Trichlorofluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
Vinyl acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:33	
Vinyl chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:33	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.1 %</i>	<i>60 - 145</i>		B9H0396	08/18/2019	<i>08/18/19 20:33</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.6 %</i>	<i>68 - 121</i>		B9H0396	08/18/2019	<i>08/18/19 20:33</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	<i>65 - 137</i>		B9H0396	08/18/2019	<i>08/18/19 20:33</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.0 %</i>	<i>82 - 119</i>		B9H0396	08/18/2019	<i>08/18/19 20:33</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-9-2'

Lab ID: 1903052-25

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Arsenic	5.1	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Barium	110	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Chromium	8.1	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Cobalt	3.0	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Copper	320	2.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Lead	67	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Molybdenum	7.2	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Nickel	16	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Vanadium	29	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	
Zinc	180	1.0	1	B9H0445	08/20/2019	08/23/19 19:00	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	24	1.0	20	B9I0350	09/11/2019	09/12/19 14:25	
Lead	4.7	1.0	20	B9I0350	09/11/2019	09/12/19 14:25	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.19	0.10	1	B9H0443	08/20/2019	08/22/19 10:17	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0386	08/16/2019	08/16/19 18:48	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.3 %	45 - 149		B9H0386	08/16/2019	08/16/19 18:48	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-9-2'

Lab ID: 1903052-25

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	420	10	10	B9H0453	08/20/2019	08/21/19 00:27	
ORO	1000	10	10	B9H0453	08/20/2019	08/21/19 00:27	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0453	08/20/2019	<i>08/21/19 00:27</i>	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
4,4'-DDE	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
4,4'-DDT	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Aldrin	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
alpha-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
alpha-Chlordane	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
beta-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Chlordane	ND	85	10	B9H0433	08/19/2019	08/21/19 11:24	D1
delta-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Dieldrin	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endosulfan I	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endosulfan II	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endosulfan sulfate	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endrin	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endrin aldehyde	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Endrin ketone	ND	20	10	B9H0433	08/19/2019	08/21/19 11:24	D1
gamma-BHC	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
gamma-Chlordane	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Heptachlor	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Heptachlor epoxide	ND	10	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Methoxychlor	ND	50	10	B9H0433	08/19/2019	08/21/19 11:24	D1
Toxaphene	ND	500	10	B9H0433	08/19/2019	08/21/19 11:24	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>85.7 %</i>	<i>32 - 91</i>		B9H0433	08/19/2019	<i>08/21/19 11:24</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>58.5 %</i>	<i>38 - 93</i>		B9H0433	08/19/2019	<i>08/21/19 11:24</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-9-2'

Lab ID: 1903052-25

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 12:51	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>51.8 %</i>	<i>40 - 121</i>		B9H0433	08/19/2019	<i>08/21/19 12:51</i>	D1
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>60.3 %</i>	<i>55 - 105</i>		B9H0433	08/19/2019	<i>08/21/19 12:51</i>	D1

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1,1-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1,2-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,1-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2,3-Trichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2-Dibromoethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,3-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,3-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
1,4-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
2,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-9-2'

Lab ID: 1903052-25

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
4-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
4-Isopropyltoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Benzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Bromobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Bromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Bromodichloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Bromoform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Bromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Carbon disulfide	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Carbon tetrachloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Chlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Chloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Chloroform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Chloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Di-isopropyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Dibromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Dibromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Dichlorodifluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Ethyl Acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:51	
Ethyl Ether	ND	50	1	B9H0396	08/18/2019	08/18/19 20:51	
Ethyl tert-butyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Ethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Freon-113	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Hexachlorobutadiene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Isopropylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
m,p-Xylene	ND	10	1	B9H0396	08/18/2019	08/18/19 20:51	
Methylene chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
MTBE	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
n-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
n-Propylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Naphthalene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
o-Xylene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
sec-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Styrene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-9-2'

Lab ID: 1903052-25

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
tert-Butanol	ND	100	1	B9H0396	08/18/2019	08/18/19 20:51	
tert-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Tetrachloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Toluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Trichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Trichlorofluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
Vinyl acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 20:51	
Vinyl chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 20:51	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.8 %</i>	<i>60 - 145</i>		B9H0396	08/18/2019	<i>08/18/19 20:51</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.9 %</i>	<i>68 - 121</i>		B9H0396	08/18/2019	<i>08/18/19 20:51</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>	<i>65 - 137</i>		B9H0396	08/18/2019	<i>08/18/19 20:51</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.4 %</i>	<i>82 - 119</i>		B9H0396	08/18/2019	<i>08/18/19 20:51</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-10-2'

Lab ID: 1903052-27

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Arsenic	2.2	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Barium	220	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Beryllium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Cadmium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Chromium	13	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Cobalt	5.4	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Copper	46	2.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Lead	93	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Molybdenum	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Nickel	19	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Selenium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Silver	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Thallium	ND	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Vanadium	33	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	
Zinc	240	1.0	1	B9H0445	08/20/2019	08/23/19 19:01	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	5.0	1.0	20	B9I0350	09/11/2019	09/12/19 14:27	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.95	0.10	1	B9H0443	08/20/2019	08/22/19 10:19	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0386	08/16/2019	08/16/19 19:06	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>45 - 149</i>		B9H0386	08/16/2019	<i>08/16/19 19:06</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-10-2'

Lab ID: 1903052-27

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2000	100	50	B9H0453	08/20/2019	08/21/19 01:53	
ORO	6600	100	50	B9H0453	08/20/2019	08/21/19 01:53	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0453	08/20/2019	<i>08/21/19 01:53</i>	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
4,4'-DDE	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
4,4'-DDT	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Aldrin	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
alpha-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
alpha-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
beta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Chlordane	ND	170	20	B9H0433	08/19/2019	08/21/19 11:35	D1
delta-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Dieldrin	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endosulfan I	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endosulfan II	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endosulfan sulfate	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endrin	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endrin aldehyde	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Endrin ketone	ND	40	20	B9H0433	08/19/2019	08/21/19 11:35	D1
gamma-BHC	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
gamma-Chlordane	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Heptachlor	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Heptachlor epoxide	ND	20	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Methoxychlor	ND	100	20	B9H0433	08/19/2019	08/21/19 11:35	D1
Toxaphene	ND	1000	20	B9H0433	08/19/2019	08/21/19 11:35	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>140 %</i>	<i>32 - 91</i>		B9H0433	08/19/2019	<i>08/21/19 11:35</i>	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>42.8 %</i>	<i>38 - 93</i>		B9H0433	08/19/2019	<i>08/21/19 11:35</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-10-2'

Lab ID: 1903052-27

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1221	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1232	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1242	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1248	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1254	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1260	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1262	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
Aroclor 1268	ND	160	10	B9H0433	08/19/2019	08/21/19 13:10	D1
<i>Surrogate: Decachlorobiphenyl</i>	200 %	40 - 121		B9H0433	08/19/2019	08/21/19 13:10	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	29.3 %	55 - 105		B9H0433	08/19/2019	08/21/19 13:10	S10

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1,1-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1,2-Trichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,1-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2,3-Trichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2-Dibromoethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2-Dichloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,3-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,3-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
1,4-Dichlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
2,2-Dichloropropane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-10-2'

Lab ID: 1903052-27

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
4-Chlorotoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
4-Isopropyltoluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Benzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Bromobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Bromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Bromodichloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Bromoform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Bromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Carbon disulfide	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Carbon tetrachloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Chlorobenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Chloroethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Chloroform	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Chloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Di-isopropyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Dibromochloromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Dibromomethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Dichlorodifluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Ethyl Acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 21:10	
Ethyl Ether	ND	50	1	B9H0396	08/18/2019	08/18/19 21:10	
Ethyl tert-butyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Ethylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Freon-113	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Hexachlorobutadiene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Isopropylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
m,p-Xylene	ND	10	1	B9H0396	08/18/2019	08/18/19 21:10	
Methylene chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
MTBE	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
n-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
n-Propylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Naphthalene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
o-Xylene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
sec-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Styrene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	



Certificate of Analysis

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369 Pacific Street
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-10-2'

Lab ID: 1903052-27

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
tert-Butanol	ND	100	1	B9H0396	08/18/2019	08/18/19 21:10	
tert-Butylbenzene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Tetrachloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Toluene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Trichloroethene	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Trichlorofluoromethane	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
Vinyl acetate	ND	50	1	B9H0396	08/18/2019	08/18/19 21:10	
Vinyl chloride	ND	5.0	1	B9H0396	08/18/2019	08/18/19 21:10	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.6 %</i>	<i>60 - 145</i>		B9H0396	08/18/2019	<i>08/18/19 21:10</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.2 %</i>	<i>68 - 121</i>		B9H0396	08/18/2019	<i>08/18/19 21:10</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	<i>65 - 137</i>		B9H0396	08/18/2019	<i>08/18/19 21:10</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.9 %</i>	<i>82 - 119</i>		B9H0396	08/18/2019	<i>08/18/19 21:10</i>	



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Padre Associates, Inc.
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result	PQL	MDL	Spike	Source	% Rec	% Rec	RPD	RPD	Notes
	(mg/kg)	(mg/kg)	(mg/kg)	Level	Result	% Rec	Limits	RPD	Limit	

Batch B9H0445 - EPA 3050B_S

Blank (B9H0445-BLK1)

Prepared: 8/20/2019 Analyzed: 8/23/2019

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B9H0445-BS1)

Prepared: 8/20/2019 Analyzed: 8/23/2019

Antimony	47.5680	2.0	0.51	50.0000	95.1	80 - 120
Arsenic	47.4760	1.0	0.12	50.0000	95.0	80 - 120
Barium	49.2169	1.0	0.12	50.0000	98.4	80 - 120
Beryllium	47.0857	1.0	0.03	50.0000	94.2	80 - 120
Cadmium	47.6780	1.0	0.14	50.0000	95.4	80 - 120
Chromium	50.2644	1.0	0.26	50.0000	101	80 - 120
Cobalt	48.9440	1.0	0.07	50.0000	97.9	80 - 120
Copper	50.2386	2.0	0.19	50.0000	100	80 - 120
Lead	48.6879	1.0	0.18	50.0000	97.4	80 - 120
Molybdenum	48.4102	1.0	0.12	50.0000	96.8	80 - 120
Nickel	48.9483	1.0	0.18	50.0000	97.9	80 - 120
Selenium	44.5667	1.0	0.40	50.0000	89.1	80 - 120
Silver	43.5959	1.0	0.12	50.0000	87.2	80 - 120
Thallium	49.1244	1.0	0.38	50.0000	98.2	80 - 120
Vanadium	50.3600	1.0	0.06	50.0000	101	80 - 120
Zinc	46.8073	1.0	0.15	50.0000	93.6	80 - 120

Matrix Spike (B9H0445-MS1)

Source: 1903047-21

Prepared: 8/20/2019 Analyzed: 8/23/2019

Antimony	69.3271	2.0	0.51	125.000	ND	55.5	21 - 95
Arsenic	201.336	1.0	0.12	125.000	2.78982	159	46 - 97
Barium	161.998	1.0	0.12	125.000	96.8419	52.1	24 - 123
Beryllium	97.4534	1.0	0.03	125.000	ND	78.0	47 - 99

M1



Certificate of Analysis

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 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0445 - EPA 3050B_S (continued)

Matrix Spike (B9H0445-MS1) - Continued

Source: 1903047-21

Prepared: 8/20/2019 Analyzed: 8/23/2019

Cadmium	90.7500	1.0	0.14	125.000	0.139512	72.5	43 - 95			
Chromium	357.550	1.0	0.26	125.000	15.7696	273	39 - 109			M1
Cobalt	119.555	1.0	0.07	125.000	8.68962	88.7	45 - 101			
Copper	178.769	2.0	0.19	125.000	19.7183	127	44 - 118			M1
Lead	175.647	1.0	0.18	125.000	3.69946	138	33 - 121			M1
Molybdenum	90.8044	1.0	0.12	125.000	ND	72.6	45 - 101			
Nickel	276.059	1.0	0.18	125.000	13.3723	210	37 - 104			M1
Selenium	68.1858	1.0	0.40	125.000	ND	54.5	43 - 96			
Silver	97.8140	1.0	0.12	125.000	ND	78.3	49 - 104			
Thallium	87.8727	1.0	0.38	125.000	ND	70.3	23 - 103			
Vanadium	178.853	1.0	0.06	125.000	29.3416	120	42 - 109			M1
Zinc	113.514	1.0	0.15	125.000	39.2535	59.4	22 - 114			

Matrix Spike Dup (B9H0445-MSD1)

Source: 1903047-21

Prepared: 8/20/2019 Analyzed: 8/23/2019

Antimony	72.5446	2.0	0.51	125.000	ND	58.0	21 - 95	4.54	20	
Arsenic	212.036	1.0	0.12	125.000	2.78982	167	46 - 97	5.18	20	M1
Barium	159.795	1.0	0.12	125.000	96.8419	50.4	24 - 123	1.37	20	
Beryllium	98.8656	1.0	0.03	125.000	ND	79.1	47 - 99	1.44	20	
Cadmium	91.3395	1.0	0.14	125.000	0.139512	73.0	43 - 95	0.648	20	
Chromium	332.169	1.0	0.26	125.000	15.7696	253	39 - 109	7.36	20	M1
Cobalt	121.487	1.0	0.07	125.000	8.68962	90.2	45 - 101	1.60	20	
Copper	190.500	2.0	0.19	125.000	19.7183	137	44 - 118	6.35	20	M1
Lead	183.539	1.0	0.18	125.000	3.69946	144	33 - 121	4.39	20	M1
Molybdenum	92.2770	1.0	0.12	125.000	ND	73.8	45 - 101	1.61	20	
Nickel	277.806	1.0	0.18	125.000	13.3723	212	37 - 104	0.631	20	M1
Selenium	72.0920	1.0	0.40	125.000	ND	57.7	43 - 96	5.57	20	
Silver	99.9051	1.0	0.12	125.000	ND	79.9	49 - 104	2.12	20	
Thallium	88.4582	1.0	0.38	125.000	ND	70.8	23 - 103	0.664	20	
Vanadium	175.018	1.0	0.06	125.000	29.3416	117	42 - 109	2.17	20	M1
Zinc	114.586	1.0	0.15	125.000	39.2535	60.3	22 - 114	0.940	20	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B910306 - EPA 3010A_S										
Blank (B910306-BLK1)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	ND	0.050	0.0047							
Blank (B910306-BLK2)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	ND	0.050	0.0047							
LCS (B910306-BS1)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	0.889440	0.050	0.0047	1.00000		88.9	80 - 120			
Duplicate (B910306-DUP1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	0.617660	0.25	0.024		0.609468			1.34	20	
Duplicate (B910306-DUP2)					Source: 1903116-12 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	ND	0.25	0.024		0.043632			NR	20	
Matrix Spike (B910306-MS1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	2.93480	0.25	0.024	2.50000	0.609468	93.0	59 - 123			
Matrix Spike (B910306-MS2)					Source: 1903116-12 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	2.40283	0.25	0.024	2.50000	0.043632	94.4	59 - 123			
Matrix Spike Dup (B910306-MSD1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Lead	2.91217	0.25	0.024	2.50000	0.609468	92.1	59 - 123	0.774	20	



Certificate of Analysis

Padre Associates, Inc.
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 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B910350 - STLC_S Extraction										
Blank (B910350-BLK1)					Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	ND	1.0	0.076							
Lead	ND	1.0	0.094							
Blank (B910350-BLK2)					Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	ND	1.0	0.076							
Lead	ND	1.0	0.094							
LCS (B910350-BS1)					Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	1.88855			2.00000		94.4	80 - 120			
Lead	1.91599			2.00000		95.8	80 - 120			
Duplicate (B910350-DUP1)					Source: 1903052-10 Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	0.362422	1.0	0.076		ND			NR	20	
Lead	25.4845	1.0	0.094		ND			NR	20	
Duplicate (B910350-DUP2)					Source: 1903116-12 Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	0.823030	1.0	0.076		0.815205			0.955	20	
Lead	12.5670	1.0	0.094		12.8980			2.60	20	
Matrix Spike (B910350-MS1)					Source: 1903052-10 Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	2.62638			2.50000	0.006600	105	70 - 130			
Lead	24.0076			2.50000	0.089571	957	70 - 130			M1
Matrix Spike (B910350-MS2)					Source: 1903116-12 Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	3.65400			2.50000	0.815205	114	70 - 130			
Lead	14.5989			2.50000	12.8980	68.0	70 - 130			M1
Matrix Spike Dup (B910350-MSD1)					Source: 1903052-10 Prepared: 9/11/2019 Analyzed: 9/12/2019					
Copper	2.59041			2.50000	0.006600	103	70 - 130	1.38	20	
Lead	23.8464			2.50000	0.089571	950	70 - 130	0.674	20	M1



Certificate of Analysis

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 Report To : Eric Snelling
 Reported : 09/13/2019

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0443 - EPA 7471_S

Blank (B9H0443-BLK1)					Prepared: 8/20/2019 Analyzed: 8/21/2019					
Mercury	ND	0.10	0.007							
LCS (B9H0443-BS1)					Prepared: 8/20/2019 Analyzed: 8/21/2019					
Mercury	0.456673	0.10	0.007	0.416667		110	80 - 120			
Matrix Spike (B9H0443-MS1)					Source: 1903047-21 Prepared: 8/20/2019 Analyzed: 8/22/2019					
Mercury	3.52900	0.50	0.03	0.416667	3.08336	107	70 - 130			
Matrix Spike Dup (B9H0443-MSD1)					Source: 1903047-21 Prepared: 8/20/2019 Analyzed: 8/22/2019					
Mercury	2.94022	0.50	0.03	0.416667	3.08336	-34.4	70 - 130	18.2	20	M1



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Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0443 - EPA 7471_S

Post Spike (B9H0443-PS1)

Source: 1903047-21

Prepared: 8/20/2019 Analyzed: 8/22/2019

Mercury	0.039596		2.00000E-3	0.037000	130	85 - 115			M1
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Padre Associates, Inc.
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	Limits Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0368 - GCVOA_S

Blank (B9H0368-BLK1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

Gasoline Range Organics	ND	1.0	0.20							
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Surrogate: 4-Bromofluorobenzene

0.2027

0.200000

101

45 - 149

LCS (B9H0368-BS1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

Gasoline Range Organics	3.94700	1.0	0.20	5.00000		78.9	70 - 130			
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Surrogate: 4-Bromofluorobenzene

0.2202

0.200000

110

45 - 149

LCS Dup (B9H0368-BSD1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

Gasoline Range Organics	3.83700	1.0	0.20	5.00000		76.7	70 - 130	2.83	20	
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Surrogate: 4-Bromofluorobenzene

0.2169

0.200000

108

45 - 149

Matrix Spike (B9H0368-MS1)

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

Gasoline Range Organics	3.66200	1.0	0.20	5.00000	ND	73.2	24 - 129			
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Surrogate: 4-Bromofluorobenzene

0.2176

0.200000

109

45 - 149

Matrix Spike Dup (B9H0368-MSD1)

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

Gasoline Range Organics	3.74100	1.0	0.20	5.00000	ND	74.8	24 - 129	2.13	20	
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Surrogate: 4-Bromofluorobenzene

0.2207

0.200000

110

45 - 149



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Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B9H0386 - GCVOA_S										
Blank (B9H0386-BLK1)					Prepared: 8/16/2019 Analyzed: 8/16/2019					
Gasoline Range Organics	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	0.1958			0.200000		97.9	45 - 149			
LCS (B9H0386-BS1)					Prepared: 8/16/2019 Analyzed: 8/16/2019					
Gasoline Range Organics	4.35400	1.0	0.20	5.00000		87.1	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2015			0.200000		101	45 - 149			
LCS Dup (B9H0386-BSD1)					Prepared: 8/16/2019 Analyzed: 8/16/2019					
Gasoline Range Organics	4.61700	1.0	0.20	5.00000		92.3	70 - 130	5.86	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2199			0.200000		110	45 - 149			
Matrix Spike (B9H0386-MS1)					Source: 1903067-01		Prepared: 8/16/2019 Analyzed: 8/16/2019			
Gasoline Range Organics	3.60300	1.0	0.20	5.00000	ND	72.1	24 - 129			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2070			0.200000		104	45 - 149			
Matrix Spike Dup (B9H0386-MSD1)					Source: 1903067-01		Prepared: 8/16/2019 Analyzed: 8/16/2019			
Gasoline Range Organics	3.77700	1.0	0.20	5.00000	ND	75.5	24 - 129	4.72	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.2120			0.200000		106	45 - 149			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B9H0453 - GCSEMI_DRO_LL_S										
Blank (B9H0453-BLK1)					Prepared: 8/20/2019 Analyzed: 8/20/2019					
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
<i>Surrogate: p-Terphenyl</i>	1.793			2.66667		67.2	34 - 158			
LCS (B9H0453-BS1)					Prepared: 8/20/2019 Analyzed: 8/20/2019					
DRO	24.0890	1.0	1.0	33.3333		72.3	47 - 152			
<i>Surrogate: p-Terphenyl</i>	1.842			2.66667		69.1	34 - 158			
Duplicate (B9H0453-DUP1)					Source: 1903089-01		Prepared: 8/20/2019 Analyzed: 8/20/2019			
DRO	131.833	10	10		136.800			3.70	20	
<i>Surrogate: p-Terphenyl</i>	0.000			2.66667		NR	34 - 158			S4
Matrix Spike (B9H0453-MS1)					Source: 1903089-01		Prepared: 8/20/2019 Analyzed: 8/20/2019			
DRO	260.000	10	10	33.3333	136.800	370	34 - 130			M2
<i>Surrogate: p-Terphenyl</i>	0.000			2.66667		NR	34 - 158			S4
Matrix Spike Dup (B9H0453-MSD1)					Source: 1903089-01		Prepared: 8/20/2019 Analyzed: 8/20/2019			
DRO	226.333	10	10	33.3333	136.800	269	34 - 130	13.8	20	M2
<i>Surrogate: p-Terphenyl</i>	0.000			2.66667		NR	34 - 158			S4



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S

Blank (B9H0433-BLK1)

Prepared: 8/19/2019 Analyzed: 8/21/2019

4,4'-DDD	ND	2.0	0.07							
4,4'-DDD [2C]	ND	2.0	0.07							
4,4'-DDE	ND	2.0	0.11							
4,4'-DDE [2C]	ND	2.0	0.11							
4,4'-DDT	ND	2.0	0.10							
4,4'-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							



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Reported : 09/13/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S (continued)

Blank (B9H0433-BLK1) - Continued

Prepared: 8/19/2019 Analyzed: 8/21/2019

Methoxychlor [2C]	ND	5.0	0.18
Toxaphene	ND	50	4.7
Toxaphene [2C]	ND	50	4.7

<i>Surrogate: Decachlorobiphenyl</i>	<i>11.12</i>		<i>16.6667</i>	<i>66.7</i>	<i>32 - 91</i>
<i>Surrogate: Decachlorobiphenyl [</i>	<i>13.87</i>		<i>16.6667</i>	<i>83.2</i>	<i>32 - 91</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.80</i>		<i>16.6667</i>	<i>82.8</i>	<i>38 - 93</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.42</i>		<i>16.6667</i>	<i>86.5</i>	<i>38 - 93</i>

LCS (B9H0433-BS1)

Prepared: 8/19/2019 Analyzed: 8/21/2019

4,4'-DDD	14.5540	2.0	0.07	16.6667	87.3	66 - 112
4,4'-DDD [2C]	17.4508	2.0	0.07	16.6667	105	66 - 112
4,4'-DDE	14.4307	2.0	0.11	16.6667	86.6	62 - 112
4,4'-DDE [2C]	17.1447	2.0	0.11	16.6667	103	62 - 112
4,4'-DDT	10.8378	2.0	0.10	16.6667	65.0	48 - 90
4,4'-DDT [2C]	12.4193	2.0	0.10	16.6667	74.5	48 - 90
Aldrin	14.1153	1.0	0.12	16.6667	84.7	58 - 104
Aldrin [2C]	17.0243	1.0	0.12	16.6667	102	58 - 104
alpha-BHC	13.2492	1.0	0.11	16.6667	79.5	57 - 105
alpha-BHC [2C]	15.5153	1.0	0.11	16.6667	93.1	57 - 105
alpha-Chlordane	14.3382	1.0	0.12	16.6667	86.0	62 - 108
alpha-Chlordane [2C]	17.4482	1.0	0.12	16.6667	105	62 - 108
beta-BHC	14.1243	1.0	0.06	16.6667	84.7	59 - 106
beta-BHC [2C]	16.3823	1.0	0.06	16.6667	98.3	59 - 106
delta-BHC	10.5305	1.0	0.12	16.6667	63.2	63 - 115
delta-BHC [2C]	12.2752	1.0	0.12	16.6667	73.7	63 - 115
Dieldrin	13.7702	2.0	0.26	16.6667	82.6	59 - 102
Dieldrin [2C]	16.2652	2.0	0.26	16.6667	97.6	59 - 102
Endosulfan I	13.0390	1.0	0.10	16.6667	78.2	61 - 99
Endosulfan I [2C]	16.0570	1.0	0.10	16.6667	96.3	61 - 99
Endosulfan II	14.4608	2.0	0.15	16.6667	86.8	65 - 105
Endosulfan II [2C]	17.1220	2.0	0.15	16.6667	103	65 - 105
Endosulfan sulfate	12.5258	2.0	0.16	16.6667	75.2	59 - 107
Endosulfan Sulfate [2C]	15.2015	2.0	0.16	16.6667	91.2	59 - 107
Endrin	14.9487	2.0	0.14	16.6667	89.7	65 - 113
Endrin [2C]	17.6947	2.0	0.14	16.6667	106	65 - 113
Endrin aldehyde	13.8682	2.0	0.31	16.6667	83.2	61 - 109
Endrin aldehyde [2C]	16.5303	2.0	0.31	16.6667	99.2	61 - 109
Endrin ketone	12.4432	2.0	0.13	16.6667	74.7	56 - 97
Endrin ketone [2C]	15.5863	2.0	0.13	16.6667	93.5	56 - 97
gamma-BHC	13.6477	1.0	0.10	16.6667	81.9	57 - 101
gamma-BHC [2C]	15.7593	1.0	0.10	16.6667	94.6	57 - 101



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S (continued)

LCS (B9H0433-BS1) - Continued

Prepared: 8/19/2019 Analyzed: 8/21/2019

gamma-Chlordane	13.9073	1.0	0.89	16.6667		83.4	56 - 125			
gamma-Chlordane [2C]	17.4760	1.0	0.89	16.6667		105	56 - 125			
Heptachlor	13.9722	1.0	0.12	16.6667		83.8	61 - 105			
Heptachlor [2C]	16.4228	1.0	0.12	16.6667		98.5	61 - 105			
Heptachlor epoxide	13.3323	1.0	0.09	16.6667		80.0	59 - 97			
Heptachlor epoxide [2C]	16.4040	1.0	0.09	16.6667		98.4	59 - 97			L4
Methoxychlor	11.3858	5.0	0.18	16.6667		68.3	68 - 118			
Methoxychlor [2C]	17.1838	5.0	0.18	16.6667		103	68 - 118			
<hr/>										
Surrogate: Decachlorobiphenyl	12.35			16.6667		74.1	32 - 91			
Surrogate: Decachlorobiphenyl [	14.76			16.6667		88.6	32 - 91			
Surrogate: Tetrachloro-m-xylene	13.76			16.6667		82.6	38 - 93			
Surrogate: Tetrachloro-m-xylene	15.03			16.6667		90.2	38 - 93			

Matrix Spike (B9H0433-MS1)

Source: 1903052-01

Prepared: 8/19/2019 Analyzed: 8/21/2019

4,4'-DDD	14.0833	4.0	0.14	16.6667	ND	84.5	33 - 116			
4,4'-DDD [2C]	17.8543	4.0	0.14	16.6667	ND	107	33 - 116			
4,4'-DDE	14.2157	4.0	0.22	16.6667	ND	85.3	29 - 128			
4,4'-DDE [2C]	16.8647	4.0	0.22	16.6667	ND	101	29 - 128			
4,4'-DDT	15.1713	4.0	0.20	16.6667	ND	91.0	27 - 109			
4,4'-DDT [2C]	19.8617	4.0	0.20	16.6667	ND	119	27 - 109			M2
Aldrin	14.2897	2.0	0.25	16.6667	ND	85.7	34 - 110			
Aldrin [2C]	16.6760	2.0	0.25	16.6667	ND	100	34 - 110			
alpha-BHC	14.1883	2.0	0.21	16.6667	ND	85.1	39 - 107			
alpha-BHC [2C]	16.9817	2.0	0.21	16.6667	ND	102	39 - 107			
alpha-Chlordane	14.1743	2.0	0.24	16.6667	ND	85.0	37 - 111			
alpha-Chlordane [2C]	17.0190	2.0	0.24	16.6667	ND	102	37 - 111			
beta-BHC	13.9317	2.0	0.12	16.6667	ND	83.6	33 - 111			
beta-BHC [2C]	16.4733	2.0	0.12	16.6667	ND	98.8	33 - 111			
delta-BHC	10.1453	2.0	0.25	16.6667	ND	60.9	25 - 122			
delta-BHC [2C]	11.8987	2.0	0.25	16.6667	ND	71.4	25 - 122			
Dieldrin	14.3763	4.0	0.53	16.6667	ND	86.3	28 - 114			
Dieldrin [2C]	16.0767	4.0	0.53	16.6667	ND	96.5	28 - 114			
Endosulfan I	13.0653	2.0	0.20	16.6667	ND	78.4	35 - 107			
Endosulfan I [2C]	15.7227	2.0	0.20	16.6667	ND	94.3	35 - 107			
Endosulfan II	14.4787	4.0	0.31	16.6667	ND	86.9	13 - 122			
Endosulfan II [2C]	16.9107	4.0	0.31	16.6667	ND	101	13 - 122			
Endosulfan sulfate	12.9720	4.0	0.32	16.6667	ND	77.8	13 - 120			
Endosulfan Sulfate [2C]	15.7067	4.0	0.32	16.6667	ND	94.2	13 - 120			
Endrin	15.1767	4.0	0.27	16.6667	ND	91.1	31 - 121			
Endrin [2C]	18.5857	4.0	0.27	16.6667	ND	112	31 - 121			
Endrin aldehyde	13.0720	4.0	0.62	16.6667	ND	78.4	18 - 129			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9H0433-MS1) - Continued

Source: 1903052-01

Prepared: 8/19/2019 Analyzed: 8/21/2019

Endrin aldehyde [2C]	16.7170	4.0	0.62	16.6667	ND	100	18 - 129			
Endrin ketone	13.6920	4.0	0.25	16.6667	ND	82.2	14 - 113			
Endrin ketone [2C]	18.8030	4.0	0.25	16.6667	ND	113	14 - 113			
gamma-BHC	14.4860	2.0	0.21	16.6667	ND	86.9	34 - 104			
gamma-BHC [2C]	16.4017	2.0	0.21	16.6667	ND	98.4	34 - 104			
gamma-Chlordane	13.7590	2.0	1.8	16.6667	ND	82.6	35 - 121			
gamma-Chlordane [2C]	17.9847	2.0	1.8	16.6667	ND	108	35 - 121			
Heptachlor	14.5157	2.0	0.23	16.6667	ND	87.1	35 - 110			
Heptachlor [2C]	18.0357	2.0	0.23	16.6667	ND	108	35 - 110			
Heptachlor epoxide	14.1023	2.0	0.18	16.6667	ND	84.6	31 - 106			
Heptachlor epoxide [2C]	16.3407	2.0	0.18	16.6667	ND	98.0	31 - 106			
Methoxychlor	14.7397	10	0.36	16.6667	ND	88.4	21 - 128			
Methoxychlor [2C]	30.4177	10	0.36	16.6667	ND	183	21 - 128			M2

<i>Surrogate: Decachlorobiphenyl</i>	<i>12.61</i>			<i>16.6667</i>		<i>75.7</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>14.94</i>			<i>16.6667</i>		<i>89.7</i>	<i>32 - 91</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.44</i>			<i>16.6667</i>		<i>92.7</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.80</i>			<i>16.6667</i>		<i>88.8</i>	<i>38 - 93</i>			

Matrix Spike Dup (B9H0433-MSD1)

Source: 1903052-01

Prepared: 8/19/2019 Analyzed: 8/21/2019

4,4'-DDD	13.8240	4.0	0.14	16.6667	ND	82.9	33 - 116	1.86	20	
4,4'-DDD [2C]	17.7613	4.0	0.14	16.6667	ND	107	33 - 116	0.522	20	
4,4'-DDE	13.5877	4.0	0.22	16.6667	ND	81.5	29 - 128	4.52	20	
4,4'-DDE [2C]	16.1643	4.0	0.22	16.6667	ND	97.0	29 - 128	4.24	20	
4,4'-DDT	14.8200	4.0	0.20	16.6667	ND	88.9	27 - 109	2.34	20	
4,4'-DDT [2C]	19.4127	4.0	0.20	16.6667	ND	116	27 - 109	2.29	20	M2
Aldrin	13.5820	2.0	0.25	16.6667	ND	81.5	34 - 110	5.08	20	
Aldrin [2C]	16.0087	2.0	0.25	16.6667	ND	96.1	34 - 110	4.08	20	
alpha-BHC	13.5883	2.0	0.21	16.6667	ND	81.5	39 - 107	4.32	20	
alpha-BHC [2C]	16.2827	2.0	0.21	16.6667	ND	97.7	39 - 107	4.20	20	
alpha-Chlordane	13.4023	2.0	0.24	16.6667	ND	80.4	37 - 111	5.60	20	
alpha-Chlordane [2C]	16.3880	2.0	0.24	16.6667	ND	98.3	37 - 111	3.78	20	
beta-BHC	13.2707	2.0	0.12	16.6667	ND	79.6	33 - 111	4.86	20	
beta-BHC [2C]	16.5427	2.0	0.12	16.6667	ND	99.3	33 - 111	0.420	20	
delta-BHC	9.84767	2.0	0.25	16.6667	ND	59.1	25 - 122	2.98	20	
delta-BHC [2C]	11.5243	2.0	0.25	16.6667	ND	69.1	25 - 122	3.20	20	
Dieldrin	13.6343	4.0	0.53	16.6667	ND	81.8	28 - 114	5.30	20	
Dieldrin [2C]	15.5573	4.0	0.53	16.6667	ND	93.3	28 - 114	3.28	20	
Endosulfan I	12.4080	2.0	0.20	16.6667	ND	74.4	35 - 107	5.16	20	
Endosulfan I [2C]	15.0547	2.0	0.20	16.6667	ND	90.3	35 - 107	4.34	20	
Endosulfan II	14.0670	4.0	0.31	16.6667	ND	84.4	13 - 122	2.88	20	
Endosulfan II [2C]	16.4363	4.0	0.31	16.6667	ND	98.6	13 - 122	2.84	20	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9H0433-MSD1) - Continued

Source: 1903052-01

Prepared: 8/19/2019 Analyzed: 8/21/2019

Endosulfan sulfate	12.6207	4.0	0.32	16.6667	ND	75.7	13 - 120	2.75	20	
Endosulfan Sulfate [2C]	15.7550	4.0	0.32	16.6667	ND	94.5	13 - 120	0.307	20	
Endrin	14.5483	4.0	0.27	16.6667	ND	87.3	31 - 121	4.23	20	
Endrin [2C]	18.0483	4.0	0.27	16.6667	ND	108	31 - 121	2.93	20	
Endrin aldehyde	12.3847	4.0	0.62	16.6667	ND	74.3	18 - 129	5.40	20	
Endrin aldehyde [2C]	16.5743	4.0	0.62	16.6667	ND	99.4	18 - 129	0.857	20	
Endrin ketone	13.5357	4.0	0.25	16.6667	ND	81.2	14 - 113	1.15	20	
Endrin ketone [2C]	19.7790	4.0	0.25	16.6667	ND	119	14 - 113	5.06	20	M2
gamma-BHC	13.9107	2.0	0.21	16.6667	ND	83.5	34 - 104	4.05	20	
gamma-BHC [2C]	15.7557	2.0	0.21	16.6667	ND	94.5	34 - 104	4.02	20	
gamma-Chlordane	12.9240	2.0	1.8	16.6667	ND	77.5	35 - 121	6.26	20	
gamma-Chlordane [2C]	17.2197	2.0	1.8	16.6667	ND	103	35 - 121	4.35	20	
Heptachlor	13.8670	2.0	0.23	16.6667	ND	83.2	35 - 110	4.57	20	
Heptachlor [2C]	17.7370	2.0	0.23	16.6667	ND	106	35 - 110	1.67	20	
Heptachlor epoxide	13.2583	2.0	0.18	16.6667	ND	79.5	31 - 106	6.17	20	
Heptachlor epoxide [2C]	15.6710	2.0	0.18	16.6667	ND	94.0	31 - 106	4.18	20	
Methoxychlor	14.4890	10	0.36	16.6667	ND	86.9	21 - 128	1.72	20	
Methoxychlor [2C]	30.8357	10	0.36	16.6667	ND	185	21 - 128	1.36	20	M2
<i>Surrogate: Decachlorobiphenyl</i>	<i>12.46</i>			<i>16.6667</i>		<i>74.8</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>14.83</i>			<i>16.6667</i>		<i>89.0</i>	<i>32 - 91</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.19</i>			<i>16.6667</i>		<i>85.1</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.96</i>			<i>16.6667</i>		<i>83.8</i>	<i>38 - 93</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0433 - GCSEMI_PCB/PEST_S

Blank (B9H0433-BLK2)

Prepared: 8/19/2019 Analyzed: 8/20/2019

Aroclor 1016	ND	16	4.6
Aroclor 1221	ND	16	4.6
Aroclor 1232	ND	16	4.6
Aroclor 1242	ND	16	4.6
Aroclor 1248	ND	16	4.6
Aroclor 1254	ND	16	4.6
Aroclor 1260	ND	16	4.6
Aroclor 1262	ND	16	4.6
Aroclor 1268	ND	16	4.6

<i>Surrogate: Decachlorobiphenyl</i>	11.45		16.6667	68.7	40 - 121
<i>Surrogate: Tetrachloro-m-xylene</i>	13.33		16.6667	80.0	55 - 105

LCS (B9H0433-BS2)

Prepared: 8/19/2019 Analyzed: 8/20/2019

Aroclor 1016	148.262	16	4.6	166.667	89.0	51 - 100
Aroclor 1260	147.605	16	4.6	166.667	88.6	48 - 116
<i>Surrogate: Decachlorobiphenyl</i>	14.61		16.6667	87.7	40 - 121	
<i>Surrogate: Tetrachloro-m-xylene</i>	15.81		16.6667	94.9	55 - 105	

Matrix Spike (B9H0433-MS2)

Source: 1903052-05

Prepared: 8/19/2019 Analyzed: 8/21/2019

Aroclor 1016	115.558	16	4.6	166.667	ND	69.3	36 - 109
Aroclor 1260	85.7110	16	4.6	166.667	ND	51.4	30 - 123
<i>Surrogate: Decachlorobiphenyl</i>	7.775		16.6667	46.6	40 - 121		
<i>Surrogate: Tetrachloro-m-xylene</i>	12.67		16.6667	76.0	55 - 105		

Matrix Spike Dup (B9H0433-MSD2)

Source: 1903052-05

Prepared: 8/19/2019 Analyzed: 8/21/2019

Aroclor 1016	106.664	16	4.6	166.667	ND	64.0	36 - 109	8.01	20
Aroclor 1260	83.4170	16	4.6	166.667	ND	50.1	30 - 123	2.71	20
<i>Surrogate: Decachlorobiphenyl</i>	7.710		16.6667	46.3	40 - 121				
<i>Surrogate: Tetrachloro-m-xylene</i>	11.54		16.6667	69.2	55 - 105				



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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S

Blank (B9H0364-BLK1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.96
1,1,1-Trichloroethane	ND	5.0	1.1
1,1,2,2-Tetrachloroethane	ND	5.0	0.62
1,1,2-Trichloroethane	ND	5.0	1.6
1,1-Dichloroethane	ND	5.0	0.81
1,1-Dichloroethene	ND	5.0	2.6
1,1-Dichloropropene	ND	5.0	2.3
1,2,3-Trichloropropane	ND	5.0	0.54
1,2,3-Trichlorobenzene	ND	5.0	1.2
1,2,4-Trichlorobenzene	ND	5.0	1.1
1,2,4-Trimethylbenzene	ND	5.0	1.5
1,2-Dibromo-3-chloropropane	ND	10	1.6
1,2-Dibromoethane	ND	5.0	3.2
1,2-Dichlorobenzene	ND	5.0	1.1
1,2-Dichloroethane	ND	5.0	1.2
1,2-Dichloropropane	ND	5.0	1.8
1,3,5-Trimethylbenzene	ND	5.0	1.7
1,3-Dichlorobenzene	ND	5.0	1.3
1,3-Dichloropropane	ND	5.0	1.1
1,4-Dichlorobenzene	ND	5.0	1.2
2,2-Dichloropropane	ND	5.0	1.2
2-Chlorotoluene	ND	5.0	1.6
4-Chlorotoluene	ND	5.0	1.5
4-Isopropyltoluene	ND	5.0	2.3
Benzene	ND	5.0	0.64
Bromobenzene	ND	5.0	1.1
Bromochloromethane	ND	5.0	0.64
Bromodichloromethane	ND	5.0	1.2
Bromoform	ND	5.0	0.80
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	3.5
Carbon tetrachloride	ND	5.0	1.2
Chlorobenzene	ND	5.0	1.0
Chloroethane	ND	5.0	1.1
Chloroform	ND	5.0	0.82
Chloromethane	ND	5.0	1.4
cis-1,2-Dichloroethene	ND	5.0	0.67
cis-1,3-Dichloropropene	ND	5.0	1.9
Di-isopropyl ether	ND	5.0	0.55
Dibromochloromethane	ND	5.0	1.0
Dibromomethane	ND	5.0	1.6



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

Blank (B9H0364-BLK1) - Continued

Prepared: 8/16/2019 Analyzed: 8/16/2019

Dichlorodifluoromethane	ND	5.0	2.2							
Ethyl Acetate	56.5500	50	8.1							B
Ethyl Ether	ND	50	6.1							
Ethyl tert-butyl ether	ND	5.0	0.67							
Ethylbenzene	ND	5.0	0.91							
Freon-113	ND	5.0	2.8							
Hexachlorobutadiene	ND	5.0	2.5							
Isopropylbenzene	ND	5.0	1.8							
m,p-Xylene	ND	10	1.5							
Methylene chloride	ND	5.0	2.3							
MTBE	ND	5.0	0.63							
n-Butylbenzene	ND	5.0	2.4							
n-Propylbenzene	ND	5.0	2.2							
Naphthalene	ND	5.0	0.97							
o-Xylene	ND	5.0	0.87							
sec-Butylbenzene	ND	5.0	2.3							
Styrene	ND	5.0	1.5							
tert-Amyl methyl ether	ND	5.0	0.59							
tert-Butanol	ND	100	19							
tert-Butylbenzene	ND	5.0	2.0							
Tetrachloroethene	ND	5.0	1.6							
Toluene	ND	5.0	0.94							
trans-1,2-Dichloroethene	ND	5.0	0.59							
trans-1,3-Dichloropropene	ND	5.0	2.1							
Trichloroethene	ND	5.0	3.1							
Trichlorofluoromethane	ND	5.0	1.4							
Vinyl acetate	ND	50	9.8							
Vinyl chloride	ND	5.0	1.7							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>42.75</i>			<i>50.0000</i>		<i>85.5</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.83</i>			<i>50.0000</i>		<i>91.7</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.71</i>			<i>50.0000</i>		<i>97.4</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.65</i>			<i>50.0000</i>		<i>95.3</i>	<i>82 - 119</i>			

LCS (B9H0364-BS1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,1,1,2-Tetrachloroethane	57.0600	5.0	0.96	50.0000		114	82 - 114			
1,1,1-Trichloroethane	54.7200	5.0	1.1	50.0000		109	70 - 121			
1,1,2,2-Tetrachloroethane	50.7400	5.0	0.62	50.0000		101	65 - 116			
1,1,2-Trichloroethane	51.7700	5.0	1.6	50.0000		104	73 - 114			
1,1-Dichloroethane	50.5000	5.0	0.81	50.0000		101	69 - 117			
1,1-Dichloroethene	50.1200	5.0	2.6	50.0000		100	57 - 128			
1,1-Dichloropropene	58.4400	5.0	2.3	50.0000		117	76 - 122			



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

LCS (B9H0364-BS1) - Continued

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,2,3-Trichloropropane	51.1600	5.0	0.54	50.0000		102	65 - 116			
1,2,3-Trichlorobenzene	62.2400	5.0	1.2	50.0000		124	72 - 130			
1,2,4-Trichlorobenzene	67.3400	5.0	1.1	50.0000		135	74 - 141			
1,2,4-Trimethylbenzene	58.1300	5.0	1.5	50.0000		116	81 - 126			
1,2-Dibromo-3-chloropropane	55.3500	10	1.6	50.0000		111	63 - 126			
1,2-Dibromoethane	51.4100	5.0	3.2	50.0000		103	75 - 113			
1,2-Dichlorobenzene	58.1200	5.0	1.1	50.0000		116	83 - 114			L3
1,2-Dichloroethane	46.8000	5.0	1.2	50.0000		93.6	73 - 115			
1,2-Dichloropropane	49.0600	5.0	1.8	50.0000		98.1	75 - 117			
1,3,5-Trimethylbenzene	59.2500	5.0	1.7	50.0000		118	80 - 126			
1,3-Dichlorobenzene	57.6200	5.0	1.3	50.0000		115	83 - 113			L3
1,3-Dichloropropane	51.6900	5.0	1.1	50.0000		103	79 - 108			
1,4-Dichlorobenzene	57.4600	5.0	1.2	50.0000		115	82 - 114			L3
2,2-Dichloropropane	57.8100	5.0	1.2	50.0000		116	66 - 135			
2-Chlorotoluene	55.9500	5.0	1.6	50.0000		112	79 - 117			
4-Chlorotoluene	56.3900	5.0	1.5	50.0000		113	77 - 118			
4-Isopropyltoluene	63.9100	5.0	2.3	50.0000		128	81 - 129			
Benzene	99.8300	5.0	0.64	100.000		99.8	78 - 112			
Bromobenzene	56.6700	5.0	1.1	50.0000		113	79 - 111			L3
Bromochloromethane	49.8100	5.0	0.64	50.0000		99.6	69 - 116			
Bromodichloromethane	49.7500	5.0	1.2	50.0000		99.5	79 - 111			
Bromoform	55.2500	5.0	0.80	50.0000		110	75 - 119			
Bromomethane	71.4400	5.0	2.5	50.0000		143	31 - 168			
Carbon disulfide	48.6200	5.0	3.5	50.0000		97.2	54 - 141			
Carbon tetrachloride	57.1800	5.0	1.2	50.0000		114	74 - 125			
Chlorobenzene	54.7300	5.0	1.0	50.0000		109	83 - 112			
Chloroethane	57.0900	5.0	1.1	50.0000		114	53 - 144			
Chloroform	50.0100	5.0	0.82	50.0000		100	69 - 118			
Chloromethane	51.9900	5.0	1.4	50.0000		104	46 - 137			
cis-1,2-Dichloroethene	50.9600	5.0	0.67	50.0000		102	68 - 118			
cis-1,3-Dichloropropene	59.9800	5.0	1.9	50.0000		120	77 - 121			
Di-isopropyl ether	48.1000	5.0	0.55	50.0000		96.2	60 - 129			
Dibromochloromethane	56.0800	5.0	1.0	50.0000		112	80 - 111			L4
Dibromomethane	48.5400	5.0	1.6	50.0000		97.1	78 - 108			
Dichlorodifluoromethane	56.6700	5.0	2.2	50.0000		113	41 - 146			
Ethyl Acetate	534.400	50	8.1	500.000		107	52 - 130			B
Ethyl Ether	381.630	50	6.1	500.000		76.3	54 - 138			
Ethyl tert-butyl ether	49.0300	5.0	0.67	50.0000		98.1	52 - 141			
Ethylbenzene	106.380	5.0	0.91	100.000		106	82 - 121			
Freon-113	52.1600	5.0	2.8	50.0000		104	59 - 139			
Hexachlorobutadiene	71.6400	5.0	2.5	50.0000		143	69 - 143			
Isopropylbenzene	63.8100	5.0	1.8	50.0000		128	78 - 124			L4



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

LCS (B9H0364-BS1) - Continued

Prepared: 8/16/2019 Analyzed: 8/16/2019

m,p-Xylene	112.650	10	1.5	100.000		113	85 - 118			
Methylene chloride	52.3400	5.0	2.3	50.0000		105	44 - 146			
MTBE	45.9600	5.0	0.63	50.0000		91.9	61 - 122			
n-Butylbenzene	64.7100	5.0	2.4	50.0000		129	78 - 135			
n-Propylbenzene	58.2500	5.0	2.2	50.0000		116	78 - 127			
Naphthalene	57.3900	5.0	0.97	50.0000		115	68 - 129			
o-Xylene	113.670	5.0	0.87	100.000		114	86 - 118			
sec-Butylbenzene	61.8300	5.0	2.3	50.0000		124	80 - 127			
Styrene	58.4600	5.0	1.5	50.0000		117	85 - 117			
tert-Amyl methyl ether	50.7600	5.0	0.59	50.0000		102	48 - 135			
tert-Butanol	48.9100	100	19	250.000		19.6	0 - 175			
tert-Butylbenzene	62.8200	5.0	2.0	50.0000		126	81 - 122			L4
Tetrachloroethene	59.6400	5.0	1.6	50.0000		119	77 - 122			
Toluene	104.350	5.0	0.94	100.000		104	79 - 114			
trans-1,2-Dichloroethene	52.0400	5.0	0.59	50.0000		104	66 - 125			
trans-1,3-Dichloropropene	51.9700	5.0	2.1	50.0000		104	76 - 120			
Trichloroethene	55.7300	5.0	3.1	50.0000		111	79 - 117			
Trichlorofluoromethane	51.2500	5.0	1.4	50.0000		102	55 - 133			
Vinyl acetate	470.410	50	9.8	500.000		94.1	52 - 141			
Vinyl chloride	51.4100	5.0	1.7	50.0000		103	58 - 132			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.04</i>			<i>50.0000</i>		<i>88.1</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.77</i>			<i>50.0000</i>		<i>97.5</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.03</i>			<i>50.0000</i>		<i>96.1</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.59</i>			<i>50.0000</i>		<i>97.2</i>	<i>82 - 119</i>			

LCS Dup (B9H0364-BSD1)

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,1,1,2-Tetrachloroethane	49.8600	5.0	0.96	50.0000		99.7	82 - 114	13.5	20	
1,1,1-Trichloroethane	51.4300	5.0	1.1	50.0000		103	70 - 121	6.20	20	
1,1,2,2-Tetrachloroethane	47.0300	5.0	0.62	50.0000		94.1	65 - 116	7.59	20	
1,1,2-Trichloroethane	46.0900	5.0	1.6	50.0000		92.2	73 - 114	11.6	20	
1,1-Dichloroethane	47.8600	5.0	0.81	50.0000		95.7	69 - 117	5.37	20	
1,1-Dichloroethene	43.4400	5.0	2.6	50.0000		86.9	57 - 128	14.3	20	
1,1-Dichloropropene	54.0900	5.0	2.3	50.0000		108	76 - 122	7.73	20	
1,2,3-Trichloropropane	46.5800	5.0	0.54	50.0000		93.2	65 - 116	9.37	20	
1,2,3-Trichlorobenzene	56.7100	5.0	1.2	50.0000		113	72 - 130	9.30	20	
1,2,4-Trichlorobenzene	58.0200	5.0	1.1	50.0000		116	74 - 141	14.9	20	
1,2,4-Trimethylbenzene	50.3100	5.0	1.5	50.0000		101	81 - 126	14.4	20	
1,2-Dibromo-3-chloropropane	50.7500	10	1.6	50.0000		102	63 - 126	8.67	20	
1,2-Dibromoethane	47.4700	5.0	3.2	50.0000		94.9	75 - 113	7.97	20	
1,2-Dichlorobenzene	50.6000	5.0	1.1	50.0000		101	83 - 114	13.8	20	
1,2-Dichloroethane	44.7900	5.0	1.2	50.0000		89.6	73 - 115	4.39	20	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

LCS Dup (B9H0364-BSD1) - Continued

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,2-Dichloropropane	46.1200	5.0	1.8	50.0000		92.2	75 - 117	6.18	20	
1,3,5-Trimethylbenzene	51.2100	5.0	1.7	50.0000		102	80 - 126	14.6	20	
1,3-Dichlorobenzene	49.7300	5.0	1.3	50.0000		99.5	83 - 113	14.7	20	
1,3-Dichloropropane	47.9800	5.0	1.1	50.0000		96.0	79 - 108	7.44	20	
1,4-Dichlorobenzene	49.2800	5.0	1.2	50.0000		98.6	82 - 114	15.3	20	
2,2-Dichloropropane	52.6800	5.0	1.2	50.0000		105	66 - 135	9.29	20	
2-Chlorotoluene	48.7800	5.0	1.6	50.0000		97.6	79 - 117	13.7	20	
4-Chlorotoluene	48.6800	5.0	1.5	50.0000		97.4	77 - 118	14.7	20	
4-Isopropyltoluene	54.2900	5.0	2.3	50.0000		109	81 - 129	16.3	20	
Benzene	93.1300	5.0	0.64	100.000		93.1	78 - 112	6.94	20	
Bromobenzene	49.3100	5.0	1.1	50.0000		98.6	79 - 111	13.9	20	
Bromochloromethane	48.2800	5.0	0.64	50.0000		96.6	69 - 116	3.12	20	
Bromodichloromethane	46.1800	5.0	1.2	50.0000		92.4	79 - 111	7.44	20	
Bromoform	48.6700	5.0	0.80	50.0000		97.3	75 - 119	12.7	20	
Bromomethane	67.8900	5.0	2.5	50.0000		136	31 - 168	5.10	20	
Carbon disulfide	44.1900	5.0	3.5	50.0000		88.4	54 - 141	9.55	20	
Carbon tetrachloride	51.9500	5.0	1.2	50.0000		104	74 - 125	9.58	20	
Chlorobenzene	48.7600	5.0	1.0	50.0000		97.5	83 - 112	11.5	20	
Chloroethane	55.4900	5.0	1.1	50.0000		111	53 - 144	2.84	20	
Chloroform	47.4100	5.0	0.82	50.0000		94.8	69 - 118	5.34	20	
Chloromethane	48.4300	5.0	1.4	50.0000		96.9	46 - 137	7.09	20	
cis-1,2-Dichloroethene	47.8300	5.0	0.67	50.0000		95.7	68 - 118	6.34	20	
cis-1,3-Dichloropropene	55.8300	5.0	1.9	50.0000		112	77 - 121	7.17	20	
Di-isopropyl ether	46.1600	5.0	0.55	50.0000		92.3	60 - 129	4.12	20	
Dibromochloromethane	48.9100	5.0	1.0	50.0000		97.8	80 - 111	13.7	20	
Dibromomethane	46.3000	5.0	1.6	50.0000		92.6	78 - 108	4.72	20	
Dichlorodifluoromethane	51.2500	5.0	2.2	50.0000		102	41 - 146	10.0	20	
Ethyl Acetate	558.750	50	8.1	500.000		112	52 - 130	4.46	20	B
Ethyl Ether	350.820	50	6.1	500.000		70.2	54 - 138	8.41	20	
Ethyl tert-butyl ether	46.9700	5.0	0.67	50.0000		93.9	52 - 141	4.29	20	
Ethylbenzene	96.1500	5.0	0.91	100.000		96.2	82 - 121	10.1	20	
Freon-113	47.7000	5.0	2.8	50.0000		95.4	59 - 139	8.93	20	
Hexachlorobutadiene	59.3700	5.0	2.5	50.0000		119	69 - 143	18.7	20	
Isopropylbenzene	55.8900	5.0	1.8	50.0000		112	78 - 124	13.2	20	
m,p-Xylene	100.380	10	1.5	100.000		100	85 - 118	11.5	20	
Methylene chloride	47.8600	5.0	2.3	50.0000		95.7	44 - 146	8.94	20	
MTBE	45.2600	5.0	0.63	50.0000		90.5	61 - 122	1.53	20	
n-Butylbenzene	54.4600	5.0	2.4	50.0000		109	78 - 135	17.2	20	
n-Propylbenzene	50.8000	5.0	2.2	50.0000		102	78 - 127	13.7	20	
Naphthalene	54.3100	5.0	0.97	50.0000		109	68 - 129	5.51	20	
o-Xylene	100.950	5.0	0.87	100.000		101	86 - 118	11.9	20	
sec-Butylbenzene	52.7800	5.0	2.3	50.0000		106	80 - 127	15.8	20	



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

LCS Dup (B9H0364-BSD1) - Continued

Prepared: 8/16/2019 Analyzed: 8/16/2019

Styrene	51.6700	5.0	1.5	50.0000		103	85 - 117	12.3	20	
tert-Amyl methyl ether	47.5500	5.0	0.59	50.0000		95.1	48 - 135	6.53	20	
tert-Butanol	ND	100	19	250.000		NR	0 - 175	NR	20	
tert-Butylbenzene	53.9100	5.0	2.0	50.0000		108	81 - 122	15.3	20	
Tetrachloroethene	53.9900	5.0	1.6	50.0000		108	77 - 122	9.94	20	
Toluene	96.7200	5.0	0.94	100.000		96.7	79 - 114	7.59	20	
trans-1,2-Dichloroethene	47.8300	5.0	0.59	50.0000		95.7	66 - 125	8.43	20	
trans-1,3-Dichloropropene	47.5000	5.0	2.1	50.0000		95.0	76 - 120	8.99	20	
Trichloroethene	51.3800	5.0	3.1	50.0000		103	79 - 117	8.12	20	
Trichlorofluoromethane	49.0200	5.0	1.4	50.0000		98.0	55 - 133	4.45	20	
Vinyl acetate	459.450	50	9.8	500.000		91.9	52 - 141	2.36	20	
Vinyl chloride	48.7900	5.0	1.7	50.0000		97.6	58 - 132	5.23	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.67</i>			<i>50.0000</i>		<i>89.3</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.99</i>			<i>50.0000</i>		<i>98.0</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.94</i>			<i>50.0000</i>		<i>97.9</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.59</i>			<i>50.0000</i>		<i>99.2</i>	<i>82 - 119</i>			

Matrix Spike (B9H0364-MS1)

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,1,1,2-Tetrachloroethane	47.1400	5.0	0.96	50.0000	ND	94.3	45 - 121			
1,1,1-Trichloroethane	52.1300	5.0	1.1	50.0000	ND	104	43 - 127			
1,1,2,2-Tetrachloroethane	43.0800	5.0	0.62	50.0000	ND	86.2	32 - 128			
1,1,2-Trichloroethane	42.6600	5.0	1.6	50.0000	ND	85.3	45 - 121			
1,1-Dichloroethane	46.0000	5.0	0.81	50.0000	ND	92.0	46 - 119			
1,1-Dichloroethene	40.5500	5.0	2.6	50.0000	ND	81.1	40 - 130			
1,1-Dichloropropene	54.7200	5.0	2.3	50.0000	ND	109	45 - 130			
1,2,3-Trichloropropane	42.7200	5.0	0.54	50.0000	ND	85.4	42 - 124			
1,2,3-Trichlorobenzene	53.6400	5.0	1.2	50.0000	ND	107	4 - 135			
1,2,4-Trichlorobenzene	56.1700	5.0	1.1	50.0000	ND	112	8 - 141			
1,2,4-Trimethylbenzene	50.2900	5.0	1.5	50.0000	ND	101	30 - 136			
1,2-Dibromo-3-chloropropane	44.1000	10	1.6	50.0000	ND	88.2	38 - 132			
1,2-Dibromoethane	43.4500	5.0	3.2	50.0000	ND	86.9	45 - 121			
1,2-Dichlorobenzene	48.7300	5.0	1.1	50.0000	ND	97.5	30 - 125			
1,2-Dichloroethane	40.8700	5.0	1.2	50.0000	ND	81.7	51 - 115			
1,2-Dichloropropane	42.4000	5.0	1.8	50.0000	ND	84.8	50 - 118			
1,3,5-Trimethylbenzene	52.0100	5.0	1.7	50.0000	ND	104	29 - 137			
1,3-Dichlorobenzene	48.4400	5.0	1.3	50.0000	ND	96.9	30 - 124			
1,3-Dichloropropane	43.4500	5.0	1.1	50.0000	ND	86.9	49 - 116			
1,4-Dichlorobenzene	48.3300	5.0	1.2	50.0000	ND	96.7	31 - 124			
2,2-Dichloropropane	53.1600	5.0	1.2	50.0000	ND	106	41 - 134			
2-Chlorotoluene	48.1900	5.0	1.6	50.0000	ND	96.4	32 - 127			
4-Chlorotoluene	47.6900	5.0	1.5	50.0000	ND	95.4	34 - 124			



Certificate of Analysis

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 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

Matrix Spike (B9H0364-MS1) - Continued

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

4-Isopropyltoluene	56.9100	5.0	2.3	50.0000	ND	114	26 - 141		
Benzene	89.5600	5.0	0.64	100.000	ND	89.6	48 - 117		
Bromobenzene	47.0100	5.0	1.1	50.0000	ND	94.0	40 - 117		
Bromochloromethane	42.4700	5.0	0.64	50.0000	ND	84.9	48 - 117		
Bromodichloromethane	42.2700	5.0	1.2	50.0000	ND	84.5	49 - 115		
Bromoform	45.2600	5.0	0.80	50.0000	ND	90.5	42 - 127		
Bromomethane	71.2000	5.0	2.5	50.0000	ND	142	19 - 157		
Carbon disulfide	40.1000	5.0	3.5	50.0000	ND	80.2	34 - 138		
Carbon tetrachloride	53.4600	5.0	1.2	50.0000	ND	107	43 - 130		
Chlorobenzene	46.6900	5.0	1.0	50.0000	ND	93.4	41 - 122		
Chloroethane	62.7800	5.0	1.1	50.0000	ND	126	32 - 145		
Chloroform	44.8500	5.0	0.82	50.0000	ND	89.7	46 - 118		
Chloromethane	53.4600	5.0	1.4	50.0000	ND	107	34 - 132		
cis-1,2-Dichloroethene	46.2500	5.0	0.67	50.0000	ND	92.5	44 - 119		
cis-1,3-Dichloropropene	50.6300	5.0	1.9	50.0000	ND	101	44 - 126		
Di-isopropyl ether	41.0500	5.0	0.55	50.0000	ND	82.1	42 - 126		
Dibromochloromethane	45.2900	5.0	1.0	50.0000	ND	90.6	46 - 119		
Dibromomethane	41.5800	5.0	1.6	50.0000	ND	83.2	52 - 114		
Dichlorodifluoromethane	64.9000	5.0	2.2	50.0000	ND	130	22 - 147		
Ethyl Acetate	388.350	50	8.1	500.000	ND	77.7	9 - 140		B
Ethyl Ether	329.670	50	6.1	500.000	ND	65.9	45 - 131		
Ethyl tert-butyl ether	43.2000	5.0	0.67	50.0000	ND	86.4	33 - 138		
Ethylbenzene	95.1800	5.0	0.91	100.000	ND	95.2	38 - 131		
Freon-113	44.8200	5.0	2.8	50.0000	ND	89.6	38 - 140		
Hexachlorobutadiene	65.2100	5.0	2.5	50.0000	ND	130	4 - 141		
Isopropylbenzene	57.0000	5.0	1.8	50.0000	ND	114	35 - 133		
m,p-Xylene	98.7900	10	1.5	100.000	ND	98.8	38 - 130		
Methylene chloride	46.3700	5.0	2.3	50.0000	ND	92.7	26 - 137		
MTBE	40.4000	5.0	0.63	50.0000	ND	80.8	45 - 121		
n-Butylbenzene	58.0700	5.0	2.4	50.0000	ND	116	18 - 144		
n-Propylbenzene	51.7600	5.0	2.2	50.0000	ND	104	30 - 137		
Naphthalene	47.8100	5.0	0.97	50.0000	ND	95.6	14 - 137		
o-Xylene	96.7000	5.0	0.87	100.000	ND	96.7	41 - 129		
sec-Butylbenzene	55.8100	5.0	2.3	50.0000	ND	112	24 - 140		
Styrene	48.4500	5.0	1.5	50.0000	ND	96.9	41 - 125		
tert-Amyl methyl ether	44.1600	5.0	0.59	50.0000	ND	88.3	31 - 133		
tert-Butanol	ND	100	19	250.000	ND	NR	0 - 201		
tert-Butylbenzene	55.5100	5.0	2.0	50.0000	ND	111	30 - 134		
Tetrachloroethene	55.6000	5.0	1.6	50.0000	ND	111	37 - 130		
Toluene	92.5800	5.0	0.94	100.000	ND	92.6	45 - 122		
trans-1,2-Dichloroethene	46.7300	5.0	0.59	50.0000	ND	93.5	46 - 122		
trans-1,3-Dichloropropene	43.0700	5.0	2.1	50.0000	ND	86.1	44 - 124		



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

Matrix Spike (B9H0364-MS1) - Continued

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

Trichloroethene	51.9300	5.0	3.1	50.0000	ND	104	36 - 142			
Trichlorofluoromethane	60.7100	5.0	1.4	50.0000	ND	121	37 - 135			
Vinyl acetate	396.750	50	9.8	500.000	ND	79.4	0 - 136			
Vinyl chloride	55.9700	5.0	1.7	50.0000	ND	112	42 - 131			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.53</i>			<i>50.0000</i>		<i>89.1</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.34</i>			<i>50.0000</i>		<i>96.7</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.12</i>			<i>50.0000</i>		<i>98.2</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.76</i>			<i>50.0000</i>		<i>97.5</i>	<i>82 - 119</i>			

Matrix Spike Dup (B9H0364-MSD1)

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

1,1,1,2-Tetrachloroethane	43.8800	5.0	0.96	50.0000	ND	87.8	45 - 121	7.16	20	
1,1,1-Trichloroethane	49.7800	5.0	1.1	50.0000	ND	99.6	43 - 127	4.61	20	
1,1,2,2-Tetrachloroethane	38.9000	5.0	0.62	50.0000	ND	77.8	32 - 128	10.2	20	
1,1,2-Trichloroethane	40.7400	5.0	1.6	50.0000	ND	81.5	45 - 121	4.60	20	
1,1-Dichloroethane	43.4200	5.0	0.81	50.0000	ND	86.8	46 - 119	5.77	20	
1,1-Dichloroethene	41.6600	5.0	2.6	50.0000	ND	83.3	40 - 130	2.70	20	
1,1-Dichloropropene	53.4300	5.0	2.3	50.0000	ND	107	45 - 130	2.39	20	
1,2,3-Trichloropropane	39.0100	5.0	0.54	50.0000	ND	78.0	42 - 124	9.08	20	
1,2,3-Trichlorobenzene	47.2600	5.0	1.2	50.0000	ND	94.5	4 - 135	12.6	20	
1,2,4-Trichlorobenzene	49.8700	5.0	1.1	50.0000	ND	99.7	8 - 141	11.9	20	
1,2,4-Trimethylbenzene	45.8400	5.0	1.5	50.0000	ND	91.7	30 - 136	9.26	20	
1,2-Dibromo-3-chloropropane	40.1700	10	1.6	50.0000	ND	80.3	38 - 132	9.33	20	
1,2-Dibromoethane	42.2700	5.0	3.2	50.0000	ND	84.5	45 - 121	2.75	20	
1,2-Dichlorobenzene	44.3100	5.0	1.1	50.0000	ND	88.6	30 - 125	9.50	20	
1,2-Dichloroethane	39.4600	5.0	1.2	50.0000	ND	78.9	51 - 115	3.51	20	
1,2-Dichloropropane	42.1700	5.0	1.8	50.0000	ND	84.3	50 - 118	0.544	20	
1,3,5-Trimethylbenzene	48.4600	5.0	1.7	50.0000	ND	96.9	29 - 137	7.07	20	
1,3-Dichlorobenzene	44.4000	5.0	1.3	50.0000	ND	88.8	30 - 124	8.70	20	
1,3-Dichloropropane	41.0700	5.0	1.1	50.0000	ND	82.1	49 - 116	5.63	20	
1,4-Dichlorobenzene	43.7400	5.0	1.2	50.0000	ND	87.5	31 - 124	9.97	20	
2,2-Dichloropropane	49.8000	5.0	1.2	50.0000	ND	99.6	41 - 134	6.53	20	
2-Chlorotoluene	44.6900	5.0	1.6	50.0000	ND	89.4	32 - 127	7.54	20	
4-Chlorotoluene	43.6700	5.0	1.5	50.0000	ND	87.3	34 - 124	8.80	20	
4-Isopropyltoluene	52.5900	5.0	2.3	50.0000	ND	105	26 - 141	7.89	20	
Benzene	86.2200	5.0	0.64	100.000	ND	86.2	48 - 117	3.80	20	
Bromobenzene	43.2000	5.0	1.1	50.0000	ND	86.4	40 - 117	8.45	20	
Bromochloromethane	40.9500	5.0	0.64	50.0000	ND	81.9	48 - 117	3.64	20	
Bromodichloromethane	41.2200	5.0	1.2	50.0000	ND	82.4	49 - 115	2.52	20	
Bromoform	42.0000	5.0	0.80	50.0000	ND	84.0	42 - 127	7.47	20	
Bromomethane	63.4100	5.0	2.5	50.0000	ND	127	19 - 157	11.6	20	
Carbon disulfide	39.5600	5.0	3.5	50.0000	ND	79.1	34 - 138	1.36	20	



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

Matrix Spike Dup (B9H0364-MSD1) - Continued

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

Carbon tetrachloride	52.1000	5.0	1.2	50.0000	ND	104	43 - 130	2.58	20	
Chlorobenzene	44.3300	5.0	1.0	50.0000	ND	88.7	41 - 122	5.19	20	
Chloroethane	59.2000	5.0	1.1	50.0000	ND	118	32 - 145	5.87	20	
Chloroform	42.9300	5.0	0.82	50.0000	ND	85.9	46 - 118	4.37	20	
Chloromethane	45.5200	5.0	1.4	50.0000	ND	91.0	34 - 132	16.0	20	
cis-1,2-Dichloroethene	43.3000	5.0	0.67	50.0000	ND	86.6	44 - 119	6.59	20	
cis-1,3-Dichloropropene	48.6300	5.0	1.9	50.0000	ND	97.3	44 - 126	4.03	20	
Di-isopropyl ether	39.8400	5.0	0.55	50.0000	ND	79.7	42 - 126	2.99	20	
Dibromochloromethane	42.9500	5.0	1.0	50.0000	ND	85.9	46 - 119	5.30	20	
Dibromomethane	40.7600	5.0	1.6	50.0000	ND	81.5	52 - 114	1.99	20	
Dichlorodifluoromethane	53.7100	5.0	2.2	50.0000	ND	107	22 - 147	18.9	20	
Ethyl Acetate	366.140	50	8.1	500.000	ND	73.2	9 - 140	5.89	20	B
Ethyl Ether	303.420	50	6.1	500.000	ND	60.7	45 - 131	8.29	20	
Ethyl tert-butyl ether	41.7000	5.0	0.67	50.0000	ND	83.4	33 - 138	3.53	20	
Ethylbenzene	91.5900	5.0	0.91	100.000	ND	91.6	38 - 131	3.84	20	
Freon-113	44.4300	5.0	2.8	50.0000	ND	88.9	38 - 140	0.874	20	
Hexachlorobutadiene	56.7000	5.0	2.5	50.0000	ND	113	4 - 141	14.0	20	
Isopropylbenzene	53.0300	5.0	1.8	50.0000	ND	106	35 - 133	7.22	20	
m,p-Xylene	96.4600	10	1.5	100.000	ND	96.5	38 - 130	2.39	20	
Methylene chloride	42.1100	5.0	2.3	50.0000	ND	84.2	26 - 137	9.63	20	
MTBE	38.8700	5.0	0.63	50.0000	ND	77.7	45 - 121	3.86	20	
n-Butylbenzene	53.1400	5.0	2.4	50.0000	ND	106	18 - 144	8.87	20	
n-Propylbenzene	48.6400	5.0	2.2	50.0000	ND	97.3	30 - 137	6.22	20	
Naphthalene	44.0200	5.0	0.97	50.0000	ND	88.0	14 - 137	8.25	20	
o-Xylene	94.5800	5.0	0.87	100.000	ND	94.6	41 - 129	2.22	20	
sec-Butylbenzene	51.5300	5.0	2.3	50.0000	ND	103	24 - 140	7.97	20	
Styrene	46.6400	5.0	1.5	50.0000	ND	93.3	41 - 125	3.81	20	
tert-Amyl methyl ether	41.7300	5.0	0.59	50.0000	ND	83.5	31 - 133	5.66	20	
tert-Butanol	ND	100	19	250.000	ND	NR	0 - 201		20	
tert-Butylbenzene	51.5400	5.0	2.0	50.0000	ND	103	30 - 134	7.42	20	
Tetrachloroethene	52.6400	5.0	1.6	50.0000	ND	105	37 - 130	5.47	20	
Toluene	90.1700	5.0	0.94	100.000	ND	90.2	45 - 122	2.64	20	
trans-1,2-Dichloroethene	44.1300	5.0	0.59	50.0000	ND	88.3	46 - 122	5.72	20	
trans-1,3-Dichloropropene	42.6400	5.0	2.1	50.0000	ND	85.3	44 - 124	1.00	20	
Trichloroethene	49.3600	5.0	3.1	50.0000	ND	98.7	36 - 142	5.07	20	
Trichlorofluoromethane	52.3600	5.0	1.4	50.0000	ND	105	37 - 135	14.8	20	
Vinyl acetate	375.860	50	9.8	500.000	ND	75.2	0 - 136	5.41	20	
Vinyl chloride	48.3000	5.0	1.7	50.0000	ND	96.6	42 - 131	14.7	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.97</i>			<i>50.0000</i>		<i>89.9</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.81</i>			<i>50.0000</i>		<i>99.6</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.10</i>			<i>50.0000</i>		<i>96.2</i>	<i>65 - 137</i>			



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0364 - MSVOA_S (continued)

Matrix Spike Dup (B9H0364-MSD1) - Continued

Source: 1903053-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

Surrogate: Toluene-d8

48.73

50.0000

97.5

82 - 119



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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S

Blank (B9H0396-BLK1)

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.40
1,1,1-Trichloroethane	ND	5.0	0.79
1,1,2,2-Tetrachloroethane	ND	5.0	0.70
1,1,2-Trichloroethane	ND	5.0	0.57
1,1-Dichloroethane	ND	5.0	0.63
1,1-Dichloroethene	ND	5.0	2.9
1,1-Dichloropropene	ND	5.0	0.26
1,2,3-Trichloropropane	ND	5.0	0.72
1,2,3-Trichlorobenzene	ND	5.0	0.57
1,2,4-Trichlorobenzene	ND	5.0	0.61
1,2,4-Trimethylbenzene	ND	5.0	1.0
1,2-Dibromo-3-chloropropane	ND	10	1.2
1,2-Dibromoethane	ND	5.0	0.28
1,2-Dichlorobenzene	ND	5.0	0.45
1,2-Dichloroethane	ND	5.0	0.88
1,2-Dichloropropane	ND	5.0	0.67
1,3,5-Trimethylbenzene	ND	5.0	0.35
1,3-Dichlorobenzene	ND	5.0	0.41
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.39
2,2-Dichloropropane	ND	5.0	0.61
2-Chlorotoluene	ND	5.0	0.26
4-Chlorotoluene	ND	5.0	0.20
4-Isopropyltoluene	ND	5.0	0.28
Benzene	ND	5.0	0.37
Bromobenzene	ND	5.0	0.44
Bromochloromethane	ND	5.0	0.99
Bromodichloromethane	ND	5.0	0.58
Bromoform	ND	5.0	0.37
Bromomethane	ND	5.0	4.7
Carbon disulfide	ND	5.0	3.2
Carbon tetrachloride	ND	5.0	0.65
Chlorobenzene	ND	5.0	0.29
Chloroethane	ND	5.0	4.0
Chloroform	ND	5.0	0.75
Chloromethane	ND	5.0	0.98
cis-1,2-Dichloroethene	ND	5.0	0.82
cis-1,3-Dichloropropene	ND	5.0	0.22
Di-isopropyl ether	ND	5.0	0.55
Dibromochloromethane	ND	5.0	0.20
Dibromomethane	ND	5.0	0.56



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

Blank (B9H0396-BLK1) - Continued

Prepared: 8/18/2019 Analyzed: 8/18/2019

Dichlorodifluoromethane	ND	5.0	2.6	
Ethyl Acetate	ND	50	10	
Ethyl Ether	ND	50	20	
Ethyl tert-butyl ether	ND	5.0	0.32	
Ethylbenzene	ND	5.0	0.26	
Freon-113	ND	5.0	3.7	
Hexachlorobutadiene	ND	5.0	0.40	
Isopropylbenzene	ND	5.0	0.32	
m,p-Xylene	ND	10	0.86	
Methylene chloride	ND	5.0	3.4	
MTBE	ND	5.0	1.3	
n-Butylbenzene	ND	5.0	0.42	
n-Propylbenzene	ND	5.0	0.25	
Naphthalene	ND	5.0	0.50	
o-Xylene	ND	5.0	0.46	
sec-Butylbenzene	ND	5.0	0.36	
Styrene	ND	5.0	0.38	
tert-Amyl methyl ether	ND	5.0	0.43	
tert-Butanol	ND	100	7.4	
tert-Butylbenzene	ND	5.0	0.33	
Tetrachloroethene	ND	5.0	0.31	
Toluene	ND	5.0	0.47	
trans-1,2-Dichloroethene	ND	5.0	1.4	
trans-1,3-Dichloropropene	ND	5.0	0.48	
Trichloroethene	ND	5.0	0.64	
Trichlorofluoromethane	ND	5.0	0.79	
Vinyl acetate	ND	50	9.0	
Vinyl chloride	ND	5.0	0.74	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.49</i>		<i>50.0000</i>	<i>91.0</i>	<i>60 - 145</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.62</i>		<i>50.0000</i>	<i>91.2</i>	<i>68 - 121</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>49.09</i>		<i>50.0000</i>	<i>98.2</i>	<i>65 - 137</i>
<i>Surrogate: Toluene-d8</i>	<i>48.57</i>		<i>50.0000</i>	<i>97.1</i>	<i>82 - 119</i>

LCS (B9H0396-BS1)

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,1,1,2-Tetrachloroethane	46.4300	5.0	0.40	50.0000	92.9	82 - 114
1,1,1-Trichloroethane	45.3800	5.0	0.79	50.0000	90.8	70 - 121
1,1,2,2-Tetrachloroethane	41.1300	5.0	0.70	50.0000	82.3	65 - 116
1,1,2-Trichloroethane	42.8200	5.0	0.57	50.0000	85.6	73 - 114
1,1-Dichloroethane	42.5000	5.0	0.63	50.0000	85.0	69 - 117
1,1-Dichloroethene	41.6700	5.0	2.9	50.0000	83.3	57 - 128
1,1-Dichloropropene	49.8000	5.0	0.26	50.0000	99.6	76 - 122



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

LCS (B9H0396-BS1) - Continued

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,2,3-Trichloropropane	41.1000	5.0	0.72	50.0000		82.2	65 - 116			
1,2,3-Trichlorobenzene	51.3400	5.0	0.57	50.0000		103	72 - 130			
1,2,4-Trichlorobenzene	54.5800	5.0	0.61	50.0000		109	74 - 141			
1,2,4-Trimethylbenzene	47.2400	5.0	1.0	50.0000		94.5	81 - 126			
1,2-Dibromo-3-chloropropane	47.1800	10	1.2	50.0000		94.4	63 - 126			
1,2-Dibromoethane	42.3000	5.0	0.28	50.0000		84.6	75 - 113			
1,2-Dichlorobenzene	46.1600	5.0	0.45	50.0000		92.3	83 - 114			
1,2-Dichloroethane	41.8300	5.0	0.88	50.0000		83.7	73 - 115			
1,2-Dichloropropane	43.2900	5.0	0.67	50.0000		86.6	75 - 117			
1,3,5-Trimethylbenzene	48.3300	5.0	0.35	50.0000		96.7	80 - 126			
1,3-Dichlorobenzene	46.1800	5.0	0.41	50.0000		92.4	83 - 113			
1,3-Dichloropropane	44.1700	5.0	0.49	50.0000		88.3	79 - 108			
1,4-Dichlorobenzene	45.9600	5.0	0.39	50.0000		91.9	82 - 114			
2,2-Dichloropropane	46.5900	5.0	0.61	50.0000		93.2	66 - 135			
2-Chlorotoluene	45.5800	5.0	0.26	50.0000		91.2	79 - 117			
4-Chlorotoluene	45.4900	5.0	0.20	50.0000		91.0	77 - 118			
4-Isopropyltoluene	51.2700	5.0	0.28	50.0000		103	81 - 129			
Benzene	87.1100	5.0	0.37	100.000		87.1	78 - 112			
Bromobenzene	44.9900	5.0	0.44	50.0000		90.0	79 - 111			
Bromochloromethane	42.4200	5.0	0.99	50.0000		84.8	69 - 116			
Bromodichloromethane	42.8600	5.0	0.58	50.0000		85.7	79 - 111			
Bromoform	44.1300	5.0	0.37	50.0000		88.3	75 - 119			
Bromomethane	64.3700	5.0	4.7	50.0000		129	31 - 168			
Carbon disulfide	40.2800	5.0	3.2	50.0000		80.6	54 - 141			
Carbon tetrachloride	47.9500	5.0	0.65	50.0000		95.9	74 - 125			
Chlorobenzene	45.7400	5.0	0.29	50.0000		91.5	83 - 112			
Chloroethane	50.4600	5.0	4.0	50.0000		101	53 - 144			
Chloroform	41.7800	5.0	0.75	50.0000		83.6	69 - 118			
Chloromethane	48.3200	5.0	0.98	50.0000		96.6	46 - 137			
cis-1,2-Dichloroethene	42.3000	5.0	0.82	50.0000		84.6	68 - 118			
cis-1,3-Dichloropropene	49.9600	5.0	0.22	50.0000		99.9	77 - 121			
Di-isopropyl ether	39.9500	5.0	0.55	50.0000		79.9	60 - 129			
Dibromochloromethane	46.2900	5.0	0.20	50.0000		92.6	80 - 111			
Dibromomethane	41.8400	5.0	0.56	50.0000		83.7	78 - 108			
Dichlorodifluoromethane	52.4300	5.0	2.6	50.0000		105	41 - 146			
Ethyl Acetate	457.780	50	10	500.000		91.6	52 - 130			
Ethyl Ether	338.600	50	20	500.000		67.7	54 - 138			
Ethyl tert-butyl ether	41.6700	5.0	0.32	50.0000		83.3	52 - 141			
Ethylbenzene	92.0300	5.0	0.26	100.000		92.0	82 - 121			
Freon-113	42.3900	5.0	3.7	50.0000		84.8	59 - 139			
Hexachlorobutadiene	56.4700	5.0	0.40	50.0000		113	69 - 143			
Isopropylbenzene	52.3500	5.0	0.32	50.0000		105	78 - 124			



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

LCS (B9H0396-BS1) - Continued

Prepared: 8/18/2019 Analyzed: 8/18/2019

m,p-Xylene	97.3100	10	0.86	100.000		97.3	85 - 118		
Methylene chloride	44.6100	5.0	3.4	50.0000		89.2	44 - 146		
MTBE	38.4600	5.0	1.3	50.0000		76.9	61 - 122		
n-Butylbenzene	51.9300	5.0	0.42	50.0000		104	78 - 135		
n-Propylbenzene	47.3300	5.0	0.25	50.0000		94.7	78 - 127		
Naphthalene	46.7900	5.0	0.50	50.0000		93.6	68 - 129		
o-Xylene	96.7700	5.0	0.46	100.000		96.8	86 - 118		
sec-Butylbenzene	49.9800	5.0	0.36	50.0000		100	80 - 127		
Styrene	49.7600	5.0	0.38	50.0000		99.5	85 - 117		
tert-Amyl methyl ether	41.9300	5.0	0.43	50.0000		83.9	48 - 135		
tert-Butanol	23.7900	100	7.4	250.000		9.52	0 - 175		
tert-Butylbenzene	50.3900	5.0	0.33	50.0000		101	81 - 122		
Tetrachloroethene	51.0700	5.0	0.31	50.0000		102	77 - 122		
Toluene	89.3600	5.0	0.47	100.000		89.4	79 - 114		
trans-1,2-Dichloroethene	42.3400	5.0	1.4	50.0000		84.7	66 - 125		
trans-1,3-Dichloropropene	43.6100	5.0	0.48	50.0000		87.2	76 - 120		
Trichloroethene	47.2300	5.0	0.64	50.0000		94.5	79 - 117		
Trichlorofluoromethane	48.5300	5.0	0.79	50.0000		97.1	55 - 133		
Vinyl acetate	405.500	50	9.0	500.000		81.1	52 - 141		
Vinyl chloride	49.7400	5.0	0.74	50.0000		99.5	58 - 132		

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>42.72</i>			<i>50.0000</i>		<i>85.4</i>	<i>60 - 145</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.62</i>			<i>50.0000</i>		<i>99.2</i>	<i>68 - 121</i>		
<i>Surrogate: Dibromofluoromethane</i>	<i>45.52</i>			<i>50.0000</i>		<i>91.0</i>	<i>65 - 137</i>		
<i>Surrogate: Toluene-d8</i>	<i>47.01</i>			<i>50.0000</i>		<i>94.0</i>	<i>82 - 119</i>		

LCS Dup (B9H0396-BSD1)

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,1,1,2-Tetrachloroethane	47.7800	5.0	0.40	50.0000		95.6	82 - 114	2.87	20
1,1,1-Trichloroethane	49.7200	5.0	0.79	50.0000		99.4	70 - 121	9.13	20
1,1,2,2-Tetrachloroethane	42.3900	5.0	0.70	50.0000		84.8	65 - 116	3.02	20
1,1,2-Trichloroethane	43.7000	5.0	0.57	50.0000		87.4	73 - 114	2.03	20
1,1-Dichloroethane	45.0900	5.0	0.63	50.0000		90.2	69 - 117	5.91	20
1,1-Dichloroethene	43.3800	5.0	2.9	50.0000		86.8	57 - 128	4.02	20
1,1-Dichloropropene	53.3400	5.0	0.26	50.0000		107	76 - 122	6.86	20
1,2,3-Trichloropropane	42.3400	5.0	0.72	50.0000		84.7	65 - 116	2.97	20
1,2,3-Trichlorobenzene	51.9100	5.0	0.57	50.0000		104	72 - 130	1.10	20
1,2,4-Trichlorobenzene	54.7000	5.0	0.61	50.0000		109	74 - 141	0.220	20
1,2,4-Trimethylbenzene	49.2900	5.0	1.0	50.0000		98.6	81 - 126	4.25	20
1,2-Dibromo-3-chloropropane	47.2100	10	1.2	50.0000		94.4	63 - 126	0.0636	20
1,2-Dibromoethane	45.0700	5.0	0.28	50.0000		90.1	75 - 113	6.34	20
1,2-Dichlorobenzene	47.9400	5.0	0.45	50.0000		95.9	83 - 114	3.78	20
1,2-Dichloroethane	42.9900	5.0	0.88	50.0000		86.0	73 - 115	2.74	20



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

LCS Dup (B9H0396-BSD1) - Continued

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,2-Dichloropropane	44.8000	5.0	0.67	50.0000		89.6	75 - 117	3.43	20	
1,3,5-Trimethylbenzene	50.6000	5.0	0.35	50.0000		101	80 - 126	4.59	20	
1,3-Dichlorobenzene	48.1800	5.0	0.41	50.0000		96.4	83 - 113	4.24	20	
1,3-Dichloropropane	44.7200	5.0	0.49	50.0000		89.4	79 - 108	1.24	20	
1,4-Dichlorobenzene	47.1600	5.0	0.39	50.0000		94.3	82 - 114	2.58	20	
2,2-Dichloropropane	51.3900	5.0	0.61	50.0000		103	66 - 135	9.80	20	
2-Chlorotoluene	47.8300	5.0	0.26	50.0000		95.7	79 - 117	4.82	20	
4-Chlorotoluene	47.1100	5.0	0.20	50.0000		94.2	77 - 118	3.50	20	
4-Isopropyltoluene	53.9300	5.0	0.28	50.0000		108	81 - 129	5.06	20	
Benzene	91.1700	5.0	0.37	100.000		91.2	78 - 112	4.55	20	
Bromobenzene	46.5100	5.0	0.44	50.0000		93.0	79 - 111	3.32	20	
Bromochloromethane	43.1100	5.0	0.99	50.0000		86.2	69 - 116	1.61	20	
Bromodichloromethane	44.5100	5.0	0.58	50.0000		89.0	79 - 111	3.78	20	
Bromoform	44.6800	5.0	0.37	50.0000		89.4	75 - 119	1.24	20	
Bromomethane	58.5700	5.0	4.7	50.0000		117	31 - 168	9.44	20	
Carbon disulfide	43.1700	5.0	3.2	50.0000		86.3	54 - 141	6.93	20	
Carbon tetrachloride	51.3000	5.0	0.65	50.0000		103	74 - 125	6.75	20	
Chlorobenzene	47.7400	5.0	0.29	50.0000		95.5	83 - 112	4.28	20	
Chloroethane	45.3500	5.0	4.0	50.0000		90.7	53 - 144	10.7	20	
Chloroform	44.5600	5.0	0.75	50.0000		89.1	69 - 118	6.44	20	
Chloromethane	42.5900	5.0	0.98	50.0000		85.2	46 - 137	12.6	20	
cis-1,2-Dichloroethene	46.2000	5.0	0.82	50.0000		92.4	68 - 118	8.81	20	
cis-1,3-Dichloropropene	52.8600	5.0	0.22	50.0000		106	77 - 121	5.64	20	
Di-isopropyl ether	41.6400	5.0	0.55	50.0000		83.3	60 - 129	4.14	20	
Dibromochloromethane	46.8600	5.0	0.20	50.0000		93.7	80 - 111	1.22	20	
Dibromomethane	43.6500	5.0	0.56	50.0000		87.3	78 - 108	4.23	20	
Dichlorodifluoromethane	45.2500	5.0	2.6	50.0000		90.5	41 - 146	14.7	20	
Ethyl Acetate	474.470	50	10	500.000		94.9	52 - 130	3.58	20	
Ethyl Ether	346.040	50	20	500.000		69.2	54 - 138	2.17	20	
Ethyl tert-butyl ether	43.4200	5.0	0.32	50.0000		86.8	52 - 141	4.11	20	
Ethylbenzene	96.0400	5.0	0.26	100.000		96.0	82 - 121	4.26	20	
Freon-113	46.0200	5.0	3.7	50.0000		92.0	59 - 139	8.21	20	
Hexachlorobutadiene	59.6300	5.0	0.40	50.0000		119	69 - 143	5.44	20	
Isopropylbenzene	54.7400	5.0	0.32	50.0000		109	78 - 124	4.46	20	
m,p-Xylene	100.950	10	0.86	100.000		101	85 - 118	3.67	20	
Methylene chloride	46.5800	5.0	3.4	50.0000		93.2	44 - 146	4.32	20	
MTBE	40.2700	5.0	1.3	50.0000		80.5	61 - 122	4.60	20	
n-Butylbenzene	54.3300	5.0	0.42	50.0000		109	78 - 135	4.52	20	
n-Propylbenzene	50.1300	5.0	0.25	50.0000		100	78 - 127	5.75	20	
Naphthalene	47.7900	5.0	0.50	50.0000		95.6	68 - 129	2.11	20	
o-Xylene	100.790	5.0	0.46	100.000		101	86 - 118	4.07	20	
sec-Butylbenzene	52.7400	5.0	0.36	50.0000		105	80 - 127	5.37	20	



Certificate of Analysis

Padre Associates, Inc.
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San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

LCS Dup (B9H0396-BSD1) - Continued

Prepared: 8/18/2019 Analyzed: 8/18/2019

Styrene	50.5300	5.0	0.38	50.0000		101	85 - 117	1.54	20	
tert-Amyl methyl ether	44.1800	5.0	0.43	50.0000		88.4	48 - 135	5.23	20	
tert-Butanol	ND	100	7.4	250.000		NR	0 - 175	NR	20	
tert-Butylbenzene	52.8600	5.0	0.33	50.0000		106	81 - 122	4.78	20	
Tetrachloroethene	53.0900	5.0	0.31	50.0000		106	77 - 122	3.88	20	
Toluene	94.3900	5.0	0.47	100.000		94.4	79 - 114	5.47	20	
trans-1,2-Dichloroethene	45.2700	5.0	1.4	50.0000		90.5	66 - 125	6.69	20	
trans-1,3-Dichloropropene	45.3800	5.0	0.48	50.0000		90.8	76 - 120	3.98	20	
Trichloroethene	49.6900	5.0	0.64	50.0000		99.4	79 - 117	5.08	20	
Trichlorofluoromethane	43.3700	5.0	0.79	50.0000		86.7	55 - 133	11.2	20	
Vinyl acetate	416.370	50	9.0	500.000		83.3	52 - 141	2.65	20	
Vinyl chloride	43.7200	5.0	0.74	50.0000		87.4	58 - 132	12.9	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>43.29</i>			<i>50.0000</i>		<i>86.6</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.06</i>			<i>50.0000</i>		<i>98.1</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.58</i>			<i>50.0000</i>		<i>93.2</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.10</i>			<i>50.0000</i>		<i>96.2</i>	<i>82 - 119</i>			

Matrix Spike (B9H0396-MS1)

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,1,1,2-Tetrachloroethane	50.1000	5.0	0.40	50.0000	ND	100	45 - 121			
1,1,1-Trichloroethane	47.0300	5.0	0.79	50.0000	ND	94.1	43 - 127			
1,1,2,2-Tetrachloroethane	54.9200	5.0	0.70	50.0000	ND	110	32 - 128			
1,1,2-Trichloroethane	40.2600	5.0	0.57	50.0000	ND	80.5	45 - 121			
1,1-Dichloroethane	42.8900	5.0	0.63	50.0000	ND	85.8	46 - 119			
1,1-Dichloroethene	40.4100	5.0	2.9	50.0000	ND	80.8	40 - 130			
1,1-Dichloropropene	50.1100	5.0	0.26	50.0000	ND	100	45 - 130			
1,2,3-Trichloropropane	55.4900	5.0	0.72	50.0000	ND	111	42 - 124			
1,2,3-Trichlorobenzene	57.0300	5.0	0.57	50.0000	ND	114	4 - 135			
1,2,4-Trichlorobenzene	56.0800	5.0	0.61	50.0000	ND	112	8 - 141			
1,2,4-Trimethylbenzene	47.0600	5.0	1.0	50.0000	ND	94.1	30 - 136			
1,2-Dibromo-3-chloropropane	47.3500	10	1.2	50.0000	ND	94.7	38 - 132			
1,2-Dibromoethane	40.3000	5.0	0.28	50.0000	ND	80.6	45 - 121			
1,2-Dichlorobenzene	44.7600	5.0	0.45	50.0000	ND	89.5	30 - 125			
1,2-Dichloroethane	39.8900	5.0	0.88	50.0000	ND	79.8	51 - 115			
1,2-Dichloropropane	40.5900	5.0	0.67	50.0000	ND	81.2	50 - 118			
1,3,5-Trimethylbenzene	47.9700	5.0	0.35	50.0000	ND	95.9	29 - 137			
1,3-Dichlorobenzene	44.9200	5.0	0.41	50.0000	ND	89.8	30 - 124			
1,3-Dichloropropane	47.3200	5.0	0.49	50.0000	ND	94.6	49 - 116			
1,4-Dichlorobenzene	44.9900	5.0	0.39	50.0000	ND	90.0	31 - 124			
2,2-Dichloropropane	48.5900	5.0	0.61	50.0000	ND	97.2	41 - 134			
2-Chlorotoluene	44.8100	5.0	0.26	50.0000	ND	89.6	32 - 127			
4-Chlorotoluene	44.3100	5.0	0.20	50.0000	ND	88.6	34 - 124			



Certificate of Analysis

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

Matrix Spike (B9H0396-MS1) - Continued

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

4-Isopropyltoluene	53.3200	5.0	0.28	50.0000	ND	107	26 - 141
Benzene	84.5500	5.0	0.37	100.0000	ND	84.6	48 - 117
Bromobenzene	47.0200	5.0	0.44	50.0000	ND	94.0	40 - 117
Bromochloromethane	41.0600	5.0	0.99	50.0000	ND	82.1	48 - 117
Bromodichloromethane	40.7600	5.0	0.58	50.0000	ND	81.5	49 - 115
Bromoform	46.7800	5.0	0.37	50.0000	ND	93.6	42 - 127
Bromomethane	38.3100	5.0	4.7	50.0000	ND	76.6	19 - 157
Carbon disulfide	40.7700	5.0	3.2	50.0000	ND	81.5	34 - 138
Carbon tetrachloride	49.6300	5.0	0.65	50.0000	ND	99.3	43 - 130
Chlorobenzene	43.3500	5.0	0.29	50.0000	ND	86.7	41 - 122
Chloroethane	26.9400	5.0	4.0	50.0000	ND	53.9	32 - 145
Chloroform	42.3700	5.0	0.75	50.0000	ND	84.7	46 - 118
Chloromethane	27.8000	5.0	0.98	50.0000	ND	55.6	34 - 132
cis-1,2-Dichloroethene	42.2600	5.0	0.82	50.0000	ND	84.5	44 - 119
cis-1,3-Dichloropropene	45.7200	5.0	0.22	50.0000	ND	91.4	44 - 126
Di-isopropyl ether	40.5700	5.0	0.55	50.0000	ND	81.1	42 - 126
Dibromochloromethane	48.8400	5.0	0.20	50.0000	ND	97.7	46 - 119
Dibromomethane	40.5500	5.0	0.56	50.0000	ND	81.1	52 - 114
Dichlorodifluoromethane	26.1700	5.0	2.6	50.0000	ND	52.3	22 - 147
Ethyl Acetate	333.320	50	10	500.000	ND	66.7	9 - 140
Ethyl Ether	317.300	50	20	500.000	ND	63.5	45 - 131
Ethyl tert-butyl ether	39.9000	5.0	0.32	50.0000	ND	79.8	33 - 138
Ethylbenzene	80.9200	5.0	0.26	100.000	ND	80.9	38 - 131
Freon-113	45.0900	5.0	3.7	50.0000	ND	90.2	38 - 140
Hexachlorobutadiene	64.3600	5.0	0.40	50.0000	ND	129	4 - 141
Isopropylbenzene	55.4700	5.0	0.32	50.0000	ND	111	35 - 133
m,p-Xylene	75.0400	10	0.86	100.000	ND	75.0	38 - 130
Methylene chloride	44.8800	5.0	3.4	50.0000	ND	89.8	26 - 137
MTBE	37.7300	5.0	1.3	50.0000	ND	75.5	45 - 121
n-Butylbenzene	55.6400	5.0	0.42	50.0000	ND	111	18 - 144
n-Propylbenzene	49.2300	5.0	0.25	50.0000	ND	98.5	30 - 137
Naphthalene	48.0800	5.0	0.50	50.0000	ND	96.2	14 - 137
o-Xylene	76.0500	5.0	0.46	100.000	ND	76.0	41 - 129
sec-Butylbenzene	52.8100	5.0	0.36	50.0000	ND	106	24 - 140
Styrene	37.3700	5.0	0.38	50.0000	ND	74.7	41 - 125
tert-Amyl methyl ether	39.3200	5.0	0.43	50.0000	ND	78.6	31 - 133
tert-Butanol	ND	100	7.4	250.000	ND	NR	0 - 201
tert-Butylbenzene	51.9600	5.0	0.33	50.0000	ND	104	30 - 134
Tetrachloroethene	56.5800	5.0	0.31	50.0000	ND	113	37 - 130
Toluene	80.0700	5.0	0.47	100.000	ND	80.1	45 - 122
trans-1,2-Dichloroethene	43.2200	5.0	1.4	50.0000	ND	86.4	46 - 122
trans-1,3-Dichloropropene	38.8500	5.0	0.48	50.0000	ND	77.7	44 - 124



Certificate of Analysis

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San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

Matrix Spike (B9H0396-MS1) - Continued

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

Trichloroethene	47.2400	5.0	0.64	50.0000	ND	94.5	36 - 142			
Trichlorofluoromethane	29.0400	5.0	0.79	50.0000	ND	58.1	37 - 135			
Vinyl acetate	375.200	50	9.0	500.000	ND	75.0	0 - 136			
Vinyl chloride	27.5200	5.0	0.74	50.0000	ND	55.0	42 - 131			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.61</i>			<i>50.0000</i>		<i>89.2</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>40.98</i>			<i>50.0000</i>		<i>82.0</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>46.18</i>			<i>50.0000</i>		<i>92.4</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>44.07</i>			<i>50.0000</i>		<i>88.1</i>	<i>82 - 119</i>			

Matrix Spike Dup (B9H0396-MSD1)

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

1,1,1,2-Tetrachloroethane	44.6300	5.0	0.40	50.0000	ND	89.3	45 - 121	11.5	20	
1,1,1-Trichloroethane	45.9800	5.0	0.79	50.0000	ND	92.0	43 - 127	2.26	20	
1,1,2,2-Tetrachloroethane	39.3400	5.0	0.70	50.0000	ND	78.7	32 - 128	33.1	20	R
1,1,2-Trichloroethane	42.1400	5.0	0.57	50.0000	ND	84.3	45 - 121	4.56	20	
1,1-Dichloroethane	42.4400	5.0	0.63	50.0000	ND	84.9	46 - 119	1.05	20	
1,1-Dichloroethene	39.7500	5.0	2.9	50.0000	ND	79.5	40 - 130	1.65	20	
1,1-Dichloropropene	48.7500	5.0	0.26	50.0000	ND	97.5	45 - 130	2.75	20	
1,2,3-Trichloropropane	40.5400	5.0	0.72	50.0000	ND	81.1	42 - 124	31.1	20	R
1,2,3-Trichlorobenzene	47.2400	5.0	0.57	50.0000	ND	94.5	4 - 135	18.8	20	
1,2,4-Trichlorobenzene	48.6300	5.0	0.61	50.0000	ND	97.3	8 - 141	14.2	20	
1,2,4-Trimethylbenzene	44.0200	5.0	1.0	50.0000	ND	88.0	30 - 136	6.68	20	
1,2-Dibromo-3-chloropropane	44.4700	10	1.2	50.0000	ND	88.9	38 - 132	6.27	20	
1,2-Dibromoethane	44.2300	5.0	0.28	50.0000	ND	88.5	45 - 121	9.30	20	
1,2-Dichlorobenzene	43.4800	5.0	0.45	50.0000	ND	87.0	30 - 125	2.90	20	
1,2-Dichloroethane	42.0700	5.0	0.88	50.0000	ND	84.1	51 - 115	5.32	20	
1,2-Dichloropropane	42.8500	5.0	0.67	50.0000	ND	85.7	50 - 118	5.42	20	
1,3,5-Trimethylbenzene	44.9300	5.0	0.35	50.0000	ND	89.9	29 - 137	6.54	20	
1,3-Dichlorobenzene	42.9500	5.0	0.41	50.0000	ND	85.9	30 - 124	4.48	20	
1,3-Dichloropropane	43.1900	5.0	0.49	50.0000	ND	86.4	49 - 116	9.13	20	
1,4-Dichlorobenzene	42.2500	5.0	0.39	50.0000	ND	84.5	31 - 124	6.28	20	
2,2-Dichloropropane	46.5400	5.0	0.61	50.0000	ND	93.1	41 - 134	4.31	20	
2-Chlorotoluene	42.5200	5.0	0.26	50.0000	ND	85.0	32 - 127	5.24	20	
4-Chlorotoluene	42.2100	5.0	0.20	50.0000	ND	84.4	34 - 124	4.85	20	
4-Isopropyltoluene	47.9000	5.0	0.28	50.0000	ND	95.8	26 - 141	10.7	20	
Benzene	83.8000	5.0	0.37	100.000	ND	83.8	48 - 117	0.891	20	
Bromobenzene	42.5500	5.0	0.44	50.0000	ND	85.1	40 - 117	9.98	20	
Bromochloromethane	42.2300	5.0	0.99	50.0000	ND	84.5	48 - 117	2.81	20	
Bromodichloromethane	42.3800	5.0	0.58	50.0000	ND	84.8	49 - 115	3.90	20	
Bromoform	44.3000	5.0	0.37	50.0000	ND	88.6	42 - 127	5.45	20	
Bromomethane	54.5600	5.0	4.7	50.0000	ND	109	19 - 157	35.0	20	R
Carbon disulfide	38.2500	5.0	3.2	50.0000	ND	76.5	34 - 138	6.38	20	



Certificate of Analysis

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Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

Matrix Spike Dup (B9H0396-MSD1) - Continued

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

Carbon tetrachloride	47.9800	5.0	0.65	50.0000	ND	96.0	43 - 130	3.38	20	
Chlorobenzene	43.7900	5.0	0.29	50.0000	ND	87.6	41 - 122	1.01	20	
Chloroethane	46.0100	5.0	4.0	50.0000	ND	92.0	32 - 145	52.3	20	R
Chloroform	41.9100	5.0	0.75	50.0000	ND	83.8	46 - 118	1.09	20	
Chloromethane	40.0700	5.0	0.98	50.0000	ND	80.1	34 - 132	36.2	20	R
cis-1,2-Dichloroethene	42.0200	5.0	0.82	50.0000	ND	84.0	44 - 119	0.570	20	
cis-1,3-Dichloropropene	49.7100	5.0	0.22	50.0000	ND	99.4	44 - 126	8.36	20	
Di-isopropyl ether	40.3100	5.0	0.55	50.0000	ND	80.6	42 - 126	0.643	20	
Dibromochloromethane	44.7800	5.0	0.20	50.0000	ND	89.6	46 - 119	8.67	20	
Dibromomethane	42.1300	5.0	0.56	50.0000	ND	84.3	52 - 114	3.82	20	
Dichlorodifluoromethane	44.7400	5.0	2.6	50.0000	ND	89.5	22 - 147	52.4	20	R
Ethyl Acetate	344.750	50	10	500.000	ND	69.0	9 - 140	3.37	20	
Ethyl Ether	302.910	50	20	500.000	ND	60.6	45 - 131	4.64	20	
Ethyl tert-butyl ether	41.3600	5.0	0.32	50.0000	ND	82.7	33 - 138	3.59	20	
Ethylbenzene	87.7500	5.0	0.26	100.000	ND	87.8	38 - 131	8.10	20	
Freon-113	42.8800	5.0	3.7	50.0000	ND	85.8	38 - 140	5.02	20	
Hexachlorobutadiene	51.7400	5.0	0.40	50.0000	ND	103	4 - 141	21.7	20	R
Isopropylbenzene	49.1700	5.0	0.32	50.0000	ND	98.3	35 - 133	12.0	20	
m,p-Xylene	92.0300	10	0.86	100.000	ND	92.0	38 - 130	20.3	20	R
Methylene chloride	44.5500	5.0	3.4	50.0000	ND	89.1	26 - 137	0.738	20	
MTBE	39.3900	5.0	1.3	50.0000	ND	78.8	45 - 121	4.30	20	
n-Butylbenzene	47.2200	5.0	0.42	50.0000	ND	94.4	18 - 144	16.4	20	
n-Propylbenzene	44.5700	5.0	0.25	50.0000	ND	89.1	30 - 137	9.94	20	
Naphthalene	44.9300	5.0	0.50	50.0000	ND	89.9	14 - 137	6.77	20	
o-Xylene	91.9600	5.0	0.46	100.000	ND	92.0	41 - 129	18.9	20	
sec-Butylbenzene	46.4800	5.0	0.36	50.0000	ND	93.0	24 - 140	12.8	20	
Styrene	46.5000	5.0	0.38	50.0000	ND	93.0	41 - 125	21.8	20	R
tert-Amyl methyl ether	41.3400	5.0	0.43	50.0000	ND	82.7	31 - 133	5.01	20	
tert-Butanol	34.6000	100	7.4	250.000	ND	13.8	0 - 201	NR	20	
tert-Butylbenzene	46.9400	5.0	0.33	50.0000	ND	93.9	30 - 134	10.2	20	
Tetrachloroethene	48.6700	5.0	0.31	50.0000	ND	97.3	37 - 130	15.0	20	
Toluene	86.9200	5.0	0.47	100.000	ND	86.9	45 - 122	8.20	20	
trans-1,2-Dichloroethene	41.9200	5.0	1.4	50.0000	ND	83.8	46 - 122	3.05	20	
trans-1,3-Dichloropropene	43.4800	5.0	0.48	50.0000	ND	87.0	44 - 124	11.2	20	
Trichloroethene	47.4700	5.0	0.64	50.0000	ND	94.9	36 - 142	0.486	20	
Trichlorofluoromethane	43.4600	5.0	0.79	50.0000	ND	86.9	37 - 135	39.8	20	R
Vinyl acetate	318.380	50	9.0	500.000	ND	63.7	0 - 136	16.4	20	
Vinyl chloride	40.8300	5.0	0.74	50.0000	ND	81.7	42 - 131	38.9	20	R
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.41</i>			<i>50.0000</i>		<i>90.8</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.46</i>			<i>50.0000</i>		<i>98.9</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.08</i>			<i>50.0000</i>		<i>94.2</i>	<i>65 - 137</i>			



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Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0396 - MSVOA_S (continued)

Matrix Spike Dup (B9H0396-MSD1) - Continued

Source: 1903063-01

Prepared: 8/18/2019 Analyzed: 8/18/2019

Surrogate: Toluene-d8

47.51

50.0000

95.0

82 - 119



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Semivolatile Organic Compounds by EPA 8270C - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S

Blank (B9H0469-BLK1)

Prepared: 8/20/2019 Analyzed: 8/20/2019

1,2,4-Trichlorobenzene	ND	330	50							
1,2-Dichlorobenzene	ND	330	26							
1,3-Dichlorobenzene	ND	330	27							
1,4-Dichlorobenzene	ND	330	27							
2,4,5-Trichlorophenol	ND	330	30							
2,4,6-Trichlorophenol	ND	330	35							
2,4-Dichlorophenol	ND	1600	34							
2,4-Dimethylphenol	ND	330	26							
2,4-Dinitrophenol	ND	1600	86							
2,4-Dinitrotoluene	ND	330	33							
2,6-Dinitrotoluene	ND	330	49							
2-Chloronaphthalene	ND	330	28							
2-Chlorophenol	ND	330	31							
2-Methylnaphthalene	ND	330	27							
2-Methylphenol	ND	330	36							
2-Nitroaniline	ND	1600	43							
2-Nitrophenol	ND	330	45							
3,3'-Dichlorobenzidine	ND	660	280							
3-Nitroaniline	ND	1600	49							
4,6-Dinitro-2-methylphenol	ND	1600	41							
4-Bromophenyl-phenylether	ND	330	64							
4-Chloro-3-methylphenol	ND	660	71							
4-Chloroaniline	ND	660	53							
4-Chlorophenyl-phenylether	ND	330	33							
4-Methylphenol	ND	330	57							
4-Nitroaniline	ND	1600	37							
4-Nitrophenol	ND	330	64							
Acenaphthene	ND	330	43							
Acenaphthylene	ND	330	62							
Anthracene	ND	330	51							
Benzidine (M)	ND	1600	1400							
Benzo(a)anthracene	ND	330	44							
Benzo(a)pyrene	ND	330	64							
Benzo(b)fluoranthene	ND	330	65							
Benzo(g,h,i)perylene	ND	330	81							
Benzo(k)fluoranthene	ND	330	33							
Benzoic acid	ND	1600	890							
Benzyl alcohol	ND	660	32							
bis(2-chloroethoxy)methane	ND	330	64							
bis(2-Chloroethyl)ether	ND	330	66							
bis(2-chloroisopropyl)ether	ND	330	76							



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

Blank (B9H0469-BLK1) - Continued

Prepared: 8/20/2019 Analyzed: 8/20/2019

bis(2-ethylhexyl)phthalate	ND	330	63
Butylbenzylphthalate	ND	330	41
Chrysene	ND	330	84
Di-n-butylphthalate	ND	330	51
Di-n-octylphthalate	ND	330	63
Dibenz(a,h)anthracene	ND	330	45
Dibenzofuran	ND	330	58
Diethyl phthalate	ND	330	58
Dimethyl phthalate	ND	330	40
Fluoranthene	ND	330	60
Fluorene	ND	330	110
Hexachlorobenzene	ND	330	55
Hexachlorobutadiene	ND	660	53
Hexachlorocyclopentadiene	ND	660	70
Hexachloroethane	ND	330	94
Indeno(1,2,3-cd)pyrene	ND	330	75
Isophorone	ND	330	85
N-Nitroso-di-n propylamine	ND	330	60
N-Nitrosodiphenylamine	ND	330	32
Naphthalene	ND	330	56
Nitrobenzene	ND	330	57
Pentachlorophenol	ND	1600	50
Phenanthrene	ND	330	67
Phenol	ND	330	34
Pyrene	ND	330	72
Pyridine	ND	1600	270

<i>Surrogate: 1,2-Dichlorobenzene-d</i>	2061			3333.33	61.8	28 - 77
<i>Surrogate: 2,4,6-Tribromophenol</i>	3285			3325.00	98.8	17 - 157
<i>Surrogate: 2-Chlorophenol-d4</i>	1940			3325.00	58.3	35 - 98
<i>Surrogate: 2-Fluorobiphenyl</i>	2277			3333.33	68.3	35 - 88
<i>Surrogate: 2-Fluorophenol</i>	1806			3325.00	54.3	32 - 88
<i>Surrogate: 4-Terphenyl-d14</i>	3552			3333.33	107	35 - 114
<i>Surrogate: Nitrobenzene-d5</i>	2176			3333.33	65.3	27 - 80
<i>Surrogate: Phenol-d6</i>	1989			3325.00	59.8	35 - 98

LCS (B9H0469-BS1)

Prepared: 8/20/2019 Analyzed: 8/20/2019

1,2,4-Trichlorobenzene	2487.33	330	50	3333.33	74.6	52 - 94
1,2-Dichlorobenzene	2208.33	330	26	3333.33	66.2	47 - 95
1,3-Dichlorobenzene	2180.33	330	27	3333.33	65.4	50 - 88
1,4-Dichlorobenzene	2194.33	330	27	3333.33	65.8	47 - 89
2,4,5-Trichlorophenol	2931.33	330	30	3333.33	87.9	66 - 113



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

LCS (B9H0469-BS1) - Continued

Prepared: 8/20/2019 Analyzed: 8/20/2019

2,4,6-Trichlorophenol	2807.33	330	35	3333.33		84.2	59 - 113			
2,4-Dichlorophenol	2532.00	1600	34	3333.33		76.0	61 - 98			
2,4-Dimethylphenol	2456.33	330	26	3333.33		73.7	54 - 108			
2,4-Dinitrophenol	3046.67	1600	86	3333.33		91.4	58 - 135			
2,4-Dinitrotoluene	2909.00	330	33	3333.33		87.3	63 - 115			
2,6-Dinitrotoluene	2931.67	330	49	3333.33		88.0	67 - 111			
2-Chloronaphthalene	2600.33	330	28	3333.33		78.0	59 - 104			
2-Chlorophenol	2098.00	330	31	3333.33		62.9	50 - 97			
2-Methylnaphthalene	2561.00	330	27	3333.33		76.8	56 - 112			
2-Methylphenol	2450.00	330	36	3333.33		73.5	57 - 102			
2-Nitroaniline	3012.00	1600	43	3333.33		90.4	55 - 118			
2-Nitrophenol	2401.00	330	45	3333.33		72.0	61 - 100			
3,3'-Dichlorobenzidine	3262.33	660	280	3333.33		97.9	47 - 113			
3-Nitroaniline	2725.67	1600	49	3333.33		81.8	66 - 117			
4,6-Dinitro-2-methylphenol	2826.67	1600	41	3333.33		84.8	62 - 125			
4-Bromophenyl-phenylether	3055.33	330	64	3333.33		91.7	45 - 137			
4-Chloro-3-methylphenol	2747.67	660	71	3333.33		82.4	64 - 101			
4-Chloroaniline	2771.33	660	53	3333.33		83.1	59 - 110			
4-Chlorophenyl-phenylether	2980.67	330	33	3333.33		89.4	58 - 109			
4-Methylphenol	2471.00	330	57	3333.33		74.1	57 - 106			
4-Nitroaniline	2755.33	1600	37	3333.33		82.7	70 - 117			
4-Nitrophenol	3100.33	330	64	3333.33		93.0	62 - 114			
Acenaphthene	2428.67	330	43	3333.33		72.9	59 - 107			
Acenaphthylene	2433.33	330	62	3333.33		73.0	61 - 108			
Anthracene	2663.00	330	51	3333.33		79.9	63 - 106			
Benzidine (M)	3835.00	1600	1400	3333.33		115	25 - 109			L4
Benzo(a)anthracene	2673.67	330	44	3333.33		80.2	60 - 103			
Benzo(a)pyrene	2607.00	330	64	3333.33		78.2	63 - 110			
Benzo(b)fluoranthene	2561.33	330	65	3333.33		76.8	55 - 115			
Benzo(g,h,i)perylene	2639.67	330	81	3333.33		79.2	66 - 107			
Benzo(k)fluoranthene	2472.00	330	33	3333.33		74.2	60 - 115			
Benzoic acid	1088.67	1600	890	3333.33		32.7	16 - 110			
Benzyl alcohol	2474.00	660	32	3333.33		74.2	57 - 107			
bis(2-chloroethoxy)methane	2596.67	330	64	3333.33		77.9	51 - 97			
bis(2-Chloroethyl)ether	2281.67	330	66	3333.33		68.5	45 - 97			
bis(2-chloroisopropyl)ether	2549.67	330	76	3333.33		76.5	2 - 127			
bis(2-ethylhexyl)phthalate	3100.00	330	63	3333.33		93.0	62 - 115			
Butylbenzylphthalate	3070.33	330	41	3333.33		92.1	60 - 117			
Chrysene	2698.00	330	84	3333.33		80.9	52 - 120			
Di-n-butylphthalate	2976.33	330	51	3333.33		89.3	65 - 114			
Di-n-octylphthalate	2726.67	330	63	3333.33		81.8	52 - 128			
Dibenz(a,h)anthracene	2612.00	330	45	3333.33		78.4	62 - 113			



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

LCS (B9H0469-BS1) - Continued

Prepared: 8/20/2019 Analyzed: 8/20/2019

Dibenzofuran	2662.00	330	58	3333.33		79.9	66 - 110			
Diethyl phthalate	2920.67	330	58	3333.33		87.6	61 - 113			
Dimethyl phthalate	2876.67	330	40	3333.33		86.3	64 - 105			
Fluoranthene	2773.67	330	60	3333.33		83.2	62 - 106			
Fluorene	2590.33	330	110	3333.33		77.7	58 - 113			
Hexachlorobenzene	3120.33	330	55	3333.33		93.6	65 - 110			
Hexachlorobutadiene	2856.00	660	53	3333.33		85.7	48 - 96			
Hexachlorocyclopentadiene	3044.67	660	70	3333.33		91.3	46 - 110			
Hexachloroethane	2226.33	330	94	3333.33		66.8	48 - 91			
Indeno(1,2,3-cd)pyrene	2640.67	330	75	3333.33		79.2	60 - 112			
Isophorone	2744.00	330	85	3333.33		82.3	52 - 100			
N-Nitroso-di-n propylamine	2812.67	330	60	3333.33		84.4	51 - 99			
N-Nitrosodiphenylamine	2811.00	330	32	3333.33		84.3	65 - 107			
Naphthalene	2221.00	330	56	3333.33		66.6	53 - 95			
Nitrobenzene	2635.00	330	57	3333.33		79.1	51 - 97			
Pentachlorophenol	3002.33	1600	50	3333.33		90.1	58 - 118			
Phenanthrene	2599.67	330	67	3333.33		78.0	63 - 107			
Phenol	2395.33	330	34	3333.33		71.9	49 - 98			
Pyrene	2737.00	330	72	3333.33		82.1	62 - 106			
Pyridine	975.333	1600	270	3333.33		29.3	0 - 54			
<hr/>										
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	2098			3333.33		63.0	28 - 77			
<i>Surrogate: 2,4,6-Tribromophenol</i>	3232			3325.00		97.2	17 - 157			
<i>Surrogate: 2-Chlorophenol-d4</i>	2059			3325.00		61.9	35 - 98			
<i>Surrogate: 2-Fluorobiphenyl</i>	2434			3333.33		73.0	35 - 88			
<i>Surrogate: 2-Fluorophenol</i>	1932			3325.00		58.1	32 - 88			
<i>Surrogate: 4-Terphenyl-d14</i>	3666			3333.33		110	35 - 114			
<i>Surrogate: Nitrobenzene-d5</i>	2407			3333.33		72.2	27 - 80			
<i>Surrogate: Phenol-d6</i>	2133			3325.00		64.2	35 - 98			

Matrix Spike (B9H0469-MS1)

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

1,2,4-Trichlorobenzene	2752.67	660	99	3333.33	ND	82.6	44 - 98			
1,2-Dichlorobenzene	2457.33	660	51	3333.33	ND	73.7	38 - 101			
1,3-Dichlorobenzene	2435.33	660	55	3333.33	ND	73.1	39 - 95			
1,4-Dichlorobenzene	2404.00	660	54	3333.33	ND	72.1	39 - 94			
2,4,5-Trichlorophenol	2865.33	660	59	3333.33	ND	86.0	53 - 122			
2,4,6-Trichlorophenol	2711.33	660	69	3333.33	ND	81.3	44 - 126			
2,4-Dichlorophenol	172.667	3300	67	3333.33	ND	5.18	51 - 105			M2
2,4-Dimethylphenol	2790.00	660	51	3333.33	ND	83.7	50 - 114			
2,4-Dinitrophenol	2666.00	3300	170	3333.33	ND	80.0	5 - 171			
2,4-Dinitrotoluene	3202.67	660	66	3333.33	ND	96.1	39 - 139			
2,6-Dinitrotoluene	2430.67	660	97	3333.33	ND	72.9	36 - 146			



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

Matrix Spike (B9H0469-MS1) - Continued

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

2-Chloronaphthalene	2554.00	660	56	3333.33	ND	76.6	50 - 111		
2-Chlorophenol	2279.33	660	61	3333.33	ND	68.4	40 - 104		
2-Methylnaphthalene	2602.67	660	54	3333.33	ND	78.1	46 - 115		
2-Methylphenol	2604.67	660	72	3333.33	ND	78.1	47 - 109		
2-Nitroaniline	3832.67	3300	85	3333.33	ND	115	49 - 120		
2-Nitrophenol	2656.00	660	90	3333.33	ND	79.7	25 - 139		
3,3'-Dichlorobenzidine	2862.67	1300	560	3333.33	ND	85.9	35 - 122		
3-Nitroaniline	2822.67	3300	98	3333.33	ND	84.7	46 - 131		
4,6-Dinitro-2-methylphenol	2832.67	3300	83	3333.33	ND	85.0	32 - 158		
4-Bromophenyl-phenylether	3458.67	660	130	3333.33	ND	104	35 - 142		
4-Chloro-3-methylphenol	2700.00	1300	140	3333.33	ND	81.0	52 - 110		
4-Chloroaniline	2652.00	1300	110	3333.33	ND	79.6	48 - 118		
4-Chlorophenyl-phenylether	2872.67	660	67	3333.33	ND	86.2	49 - 114		
4-Methylphenol	2552.00	660	110	3333.33	ND	76.6	48 - 112		
4-Nitroaniline	2853.33	3300	75	3333.33	ND	85.6	40 - 153		
4-Nitrophenol	3378.00	660	130	3333.33	ND	101	45 - 122		
Acenaphthene	2644.67	660	85	3333.33	ND	79.3	47 - 117		
Acenaphthylene	2626.67	660	120	3333.33	ND	78.8	47 - 120		
Anthracene	2925.33	660	100	3333.33	ND	87.8	50 - 115		
Benzidine (M)	ND	3300	2900	3333.33	ND	NR	25 - 131		M2
Benzo(a)anthracene	2759.33	660	87	3333.33	ND	82.8	51 - 108		
Benzo(a)pyrene	2503.33	660	130	3333.33	ND	75.1	46 - 120		
Benzo(b)fluoranthene	2621.33	660	130	3333.33	ND	78.6	41 - 120		
Benzo(g,h,i)perylene	2571.33	660	160	3333.33	ND	77.1	50 - 117		
Benzo(k)fluoranthene	2402.67	660	65	3333.33	ND	72.1	33 - 135		
Benzoic acid	2468.00	3300	1800	3333.33	ND	74.0	0 - 104		
Benzyl alcohol	2622.00	1300	64	3333.33	ND	78.7	41 - 116		
bis(2-chloroethoxy)methane	2865.33	660	130	3333.33	ND	86.0	41 - 101		
bis(2-Chloroethyl)ether	2471.33	660	130	3333.33	ND	74.1	33 - 106		
bis(2-chloroisopropyl)ether	3070.67	660	150	3333.33	ND	92.1	0 - 128		
bis(2-ethylhexyl)phthalate	3538.00	660	130	3333.33	ND	106	45 - 126		
Butylbenzylphthalate	3313.33	660	83	3333.33	ND	99.4	51 - 125		
Chrysene	2768.00	660	170	3333.33	ND	83.0	38 - 131		
Di-n-butylphthalate	3027.33	660	100	3333.33	ND	90.8	53 - 124		
Di-n-octylphthalate	3167.33	660	130	3333.33	ND	95.0	29 - 150		
Dibenz(a,h)anthracene	2405.33	660	90	3333.33	ND	72.2	42 - 123		
Dibenzofuran	2741.33	660	120	3333.33	ND	82.2	55 - 121		
Diethyl phthalate	2832.00	660	120	3333.33	ND	85.0	44 - 127		
Dimethyl phthalate	2702.67	660	81	3333.33	ND	81.1	51 - 114		
Fluoranthene	2742.00	660	120	3333.33	ND	82.3	49 - 114		
Fluorene	2562.67	660	210	3333.33	ND	76.9	45 - 123		
Hexachlorobenzene	2874.00	660	110	3333.33	ND	86.2	51 - 119		



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

Matrix Spike (B9H0469-MS1) - Continued

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

Hexachlorobutadiene	2972.00	1300	110	3333.33	ND	89.2	42 - 97			
Hexachlorocyclopentadiene	2706.67	1300	140	3333.33	ND	81.2	36 - 115			
Hexachloroethane	2493.33	660	190	3333.33	ND	74.8	35 - 101			
Indeno(1,2,3-cd)pyrene	2426.67	660	150	3333.33	ND	72.8	44 - 118			
Isophorone	4356.67	660	170	3333.33	ND	131	42 - 103			M2
N-Nitroso-di-n propylamine	3887.33	660	120	3333.33	ND	117	42 - 103			M2
N-Nitrosodiphenylamine	5287.33	660	63	3333.33	ND	159	52 - 116			M2
Naphthalene	2595.33	660	110	3333.33	ND	77.9	44 - 101			
Nitrobenzene	3258.00	660	110	3333.33	ND	97.7	44 - 99			
Pentachlorophenol	2569.33	3300	99	3333.33	ND	77.1	39 - 126			
Phenanthrene	2796.67	660	130	3333.33	ND	83.9	51 - 115			
Phenol	2430.00	660	68	3333.33	ND	72.9	39 - 103			
Pyrene	2805.33	660	140	3333.33	ND	84.2	48 - 114			
Pyridine	ND	3300	530	3333.33	ND	NR	20 - 91			M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	<i>2396</i>			<i>3333.33</i>		<i>71.9</i>	<i>28 - 77</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>2745</i>			<i>3325.00</i>		<i>82.5</i>	<i>17 - 157</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>2230</i>			<i>3325.00</i>		<i>67.1</i>	<i>35 - 98</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2025</i>			<i>3333.33</i>		<i>60.8</i>	<i>35 - 88</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>2008</i>			<i>3325.00</i>		<i>60.4</i>	<i>32 - 88</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>3417</i>			<i>3333.33</i>		<i>102</i>	<i>35 - 114</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>3555</i>			<i>3333.33</i>		<i>107</i>	<i>27 - 80</i>			S10
<i>Surrogate: Phenol-d6</i>	<i>2239</i>			<i>3325.00</i>		<i>67.3</i>	<i>35 - 98</i>			

Matrix Spike Dup (B9H0469-MSD1)

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

1,2,4-Trichlorobenzene	2878.67	660	99	3333.33	ND	86.4	44 - 98	4.47	20	
1,2-Dichlorobenzene	2663.33	660	51	3333.33	ND	79.9	38 - 101	8.05	20	
1,3-Dichlorobenzene	2664.00	660	55	3333.33	ND	79.9	39 - 95	8.97	20	
1,4-Dichlorobenzene	2593.33	660	54	3333.33	ND	77.8	39 - 94	7.58	20	
2,4,5-Trichlorophenol	3142.67	660	59	3333.33	ND	94.3	53 - 122	9.23	20	
2,4,6-Trichlorophenol	3182.67	660	69	3333.33	ND	95.5	44 - 126	16.0	20	
2,4-Dichlorophenol	2948.00	3300	67	3333.33	ND	88.4	51 - 105	178	20	R
2,4-Dimethylphenol	2956.67	660	51	3333.33	ND	88.7	50 - 114	5.80	20	
2,4-Dinitrophenol	2970.00	3300	170	3333.33	ND	89.1	5 - 171	10.8	20	
2,4-Dinitrotoluene	3862.00	660	66	3333.33	ND	116	39 - 139	18.7	20	
2,6-Dinitrotoluene	2712.67	660	97	3333.33	ND	81.4	36 - 146	11.0	20	
2-Chloronaphthalene	2850.00	660	56	3333.33	ND	85.5	50 - 111	11.0	20	
2-Chlorophenol	2500.67	660	61	3333.33	ND	75.0	40 - 104	9.26	20	
2-Methylnaphthalene	2721.33	660	54	3333.33	ND	81.6	46 - 115	4.46	20	
2-Methylphenol	2752.00	660	72	3333.33	ND	82.6	47 - 109	5.50	20	
2-Nitroaniline	4077.33	3300	85	3333.33	ND	122	49 - 120	6.19	20	M2
2-Nitrophenol	2841.33	660	90	3333.33	ND	85.2	25 - 139	6.74	20	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

Matrix Spike Dup (B9H0469-MSD1) - Continued

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

3,3'-Dichlorobenzidine	3112.00	1300	560	3333.33	ND	93.4	35 - 122	8.35	20	
3-Nitroaniline	2980.00	3300	98	3333.33	ND	89.4	46 - 131	5.42	20	
4,6-Dinitro-2-methylphenol	2953.33	3300	83	3333.33	ND	88.6	32 - 158	4.17	20	
4-Bromophenyl-phenylether	3720.67	660	130	3333.33	ND	112	35 - 142	7.30	20	
4-Chloro-3-methylphenol	2756.00	1300	140	3333.33	ND	82.7	52 - 110	2.05	20	
4-Chloroaniline	2785.33	1300	110	3333.33	ND	83.6	48 - 118	4.90	20	
4-Chlorophenyl-phenylether	3166.00	660	67	3333.33	ND	95.0	49 - 114	9.72	20	
4-Methylphenol	2786.67	660	110	3333.33	ND	83.6	48 - 112	8.79	20	
4-Nitroaniline	3012.67	3300	75	3333.33	ND	90.4	40 - 153	5.43	20	
4-Nitrophenol	3765.33	660	130	3333.33	ND	113	45 - 122	10.8	20	
Acenaphthene	2852.67	660	85	3333.33	ND	85.6	47 - 117	7.57	20	
Acenaphthylene	2868.67	660	120	3333.33	ND	86.1	47 - 120	8.81	20	
Anthracene	3117.33	660	100	3333.33	ND	93.5	50 - 115	6.35	20	
Benzidine (M)	ND	3300	2900	3333.33	ND	NR	25 - 131	NR	20	M2
Benzo(a)anthracene	2952.00	660	87	3333.33	ND	88.6	51 - 108	6.75	20	
Benzo(a)pyrene	2746.00	660	130	3333.33	ND	82.4	46 - 120	9.25	20	
Benzo(b)fluoranthene	2766.67	660	130	3333.33	ND	83.0	41 - 120	5.39	20	
Benzo(g,h,i)perylene	2846.67	660	160	3333.33	ND	85.4	50 - 117	10.2	20	
Benzo(k)fluoranthene	2710.00	660	65	3333.33	ND	81.3	33 - 135	12.0	20	
Benzoic acid	3123.33	3300	1800	3333.33	ND	93.7	0 - 104	23.4	20	R2
Benzyl alcohol	2816.67	1300	64	3333.33	ND	84.5	41 - 116	7.16	20	
bis(2-chloroethoxy)methane	3032.67	660	130	3333.33	ND	91.0	41 - 101	5.67	20	
bis(2-Chloroethyl)ether	2626.67	660	130	3333.33	ND	78.8	33 - 106	6.09	20	
bis(2-chloroisopropyl)ether	3294.67	660	150	3333.33	ND	98.8	0 - 128	7.04	20	
bis(2-ethylhexyl)phthalate	3784.67	660	130	3333.33	ND	114	45 - 126	6.74	20	
Butylbenzylphthalate	3526.00	660	83	3333.33	ND	106	51 - 125	6.22	20	
Chrysene	2955.33	660	170	3333.33	ND	88.7	38 - 131	6.55	20	
Di-n-butylphthalate	3220.00	660	100	3333.33	ND	96.6	53 - 124	6.17	20	
Di-n-octylphthalate	3356.00	660	130	3333.33	ND	101	29 - 150	5.78	20	
Dibenz(a,h)anthracene	2678.00	660	90	3333.33	ND	80.3	42 - 123	10.7	20	
Dibenzofuran	3006.00	660	120	3333.33	ND	90.2	55 - 121	9.21	20	
Diethyl phthalate	3113.33	660	120	3333.33	ND	93.4	44 - 127	9.46	20	
Dimethyl phthalate	2982.67	660	81	3333.33	ND	89.5	51 - 114	9.85	20	
Fluoranthene	2875.33	660	120	3333.33	ND	86.3	49 - 114	4.75	20	
Fluorene	2894.67	660	210	3333.33	ND	86.8	45 - 123	12.2	20	
Hexachlorobenzene	3002.67	660	110	3333.33	ND	90.1	51 - 119	4.38	20	
Hexachlorobutadiene	3051.33	1300	110	3333.33	ND	91.5	42 - 97	2.63	20	
Hexachlorocyclopentadiene	2975.33	1300	140	3333.33	ND	89.3	36 - 115	9.46	20	
Hexachloroethane	2598.00	660	190	3333.33	ND	77.9	35 - 101	4.11	20	
Indeno(1,2,3-cd)pyrene	2666.00	660	150	3333.33	ND	80.0	44 - 118	9.40	20	
Isophorone	4634.67	660	170	3333.33	ND	139	42 - 103	6.18	20	M2
N-Nitroso-di-n propylamine	4066.67	660	120	3333.33	ND	122	42 - 103	4.51	20	M2



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0469 - MSSEMI_S (continued)

Matrix Spike Dup (B9H0469-MSD1) - Continued

Source: 1903067-05

Prepared: 8/20/2019 Analyzed: 8/20/2019

N-Nitrosodiphenylamine	5612.67	660	63	3333.33	ND	168	52 - 116	5.97	20	M2
Naphthalene	2672.00	660	110	3333.33	ND	80.2	44 - 101	2.91	20	
Nitrobenzene	3419.33	660	110	3333.33	ND	103	44 - 99	4.83	20	M2
Pentachlorophenol	2939.33	3300	99	3333.33	ND	88.2	39 - 126	13.4	20	
Phenanthrene	2942.67	660	130	3333.33	ND	88.3	51 - 115	5.09	20	
Phenol	2618.00	660	68	3333.33	ND	78.5	39 - 103	7.45	20	
Pyrene	2954.00	660	140	3333.33	ND	88.6	48 - 114	5.16	20	
Pyridine	ND	3300	530	3333.33	ND	NR	20 - 91	NR	20	M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	2597			3333.33		77.9	28 - 77			S10
<i>Surrogate: 2,4,6-Tribromophenol</i>	3133			3325.00		94.2	17 - 157			
<i>Surrogate: 2-Chlorophenol-d4</i>	2412			3325.00		72.5	35 - 98			
<i>Surrogate: 2-Fluorobiphenyl</i>	2277			3333.33		68.3	35 - 88			
<i>Surrogate: 2-Fluorophenol</i>	2155			3325.00		64.8	32 - 88			
<i>Surrogate: 4-Terphenyl-d14</i>	3634			3333.33		109	35 - 114			
<i>Surrogate: Nitrobenzene-d5</i>	3832			3333.33		115	27 - 80			S10
<i>Surrogate: Phenol-d6</i>	2406			3325.00		72.4	35 - 98			



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

pH by EPA 9045C - Quality Control

Analyte	Result (pH Units)	PQL (pH Units)	MDL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0379 - Prep_WC1_S

Duplicate (B9H0379-DUP1)

Source: 1903019-01

Prepared: 8/16/2019 Analyzed: 8/16/2019

pH	7.48000	0.10	0.10		7.52000			0.533	20	
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Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Notes and Definitions

S4	Surrogate was diluted out.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
L3	Laboratory control sample outside in-house established limits but within method criteria.
D6	Sample required dilution due to high concentration of target analyte.
D1	Sample required dilution due to possible matrix interference.
B	Analyte detected in the associated method blank.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

For Laboratory Use Only ATLCOC Ver:20190413

Method of Transport	Sample Conditions Upon Receipt	Condition
<input checked="" type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> GSO <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> 1. CHILLED <input type="checkbox"/> 2. HEADSPACE (VDA) <input checked="" type="checkbox"/> 3. CONTAINER INTACT <input checked="" type="checkbox"/> 4. SEALED	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SAMPLES MATCH COC <input type="checkbox"/> 6. PRESERVED <input checked="" type="checkbox"/> 7. COOLER TEMP. DEG C: <input checked="" type="checkbox"/> 8.

Instruction: Complete all shaded areas.

Company: Padre Associates, Inc	Address: 1861 Knoll Drive	Tel: 805-644-2220
City: Ventura	State: CA	Zip: 93003
Attn: Eric Snelling	Email: esnelling@padreinc.com	Company: Padre Associates, Inc
Address: 369 Pacific Street	City: San Luis Obispo	State: CA
Zip: 93401	Special Instructions/Comments: Use Padre Rate Sheet	Quote #: 1802-2611
PO #: 1802-2611	Sampler: Marco Ojeda	Project No.: 1802-2611
Project Name: Hydrogen Gas Pipeline - Phase II	Project No.: 1802-2611	Sampler: Marco Ojeda

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Sample Description	Date	Time	Requested Analysis												Soil	Solid	Sample Matrix	Turnaround Time (TAT)	Quantity	Container	Remarks
						8015 (DRO)	8015 (GRO)	8260 / 624 (Volatiles)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8270 (Semi-Volatiles)	Select Analysis	Chlorinated hydrocarbons 8151	Reactivity (Cyanide and Sulfide)	Ignitability (1010)	Corrosivity 9045C							
1	1903052-01	HA-1-0.5		8/15/16	1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	2A3	Hold		
2		HA-1-2.1			1013	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold			
3		HA-2-0.5			1026	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold			
4		HA-2-2.1			1030	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold			
5		HA-2-5.1			1040	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold			
6		HA-3-0.5			1210	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold			
7		HA-3-2.1			1314	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold			
8		HA-3-5.1			1320	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold			
9		HA-4-0.5			1116	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold			
10		HA-4-2.1			1122	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold			

to the subcontract lab --- ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20 sample/week if extended storage is requested.
 - Hard copy and regenerated reports: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.

10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
 2. Samples submitted AFTER 5:00 PM are considered received the following business day at 6:00 AM.
 3. The following turnaround time conditions apply:
 TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
 TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
 TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
 TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
 TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
 TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
 4. Weekend, holiday, after-hours work --- ask for quote.
 5. Subcontract TAT is 20 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective

Received by: (Signature and Printed Name) Date: 8/15/16 Time: 1:00 P
 Relinquished by: (Signature and Printed Name) Date: 8/15/16 Time: 1:00 P
 Relinquished by: (Signature and Printed Name) Date: 8/15/16 Time: 1:00 P
 Relinquished by: (Signature and Printed Name) Date: 8/15/16 Time: 1:00 P

As the authorized agent of the company above, I hereby guarantee payment as quoted.
 Printed Name: _____ Signature: _____

For Laboratory Use Only ATLOC Ver.:20190413

Method of Transport	Sample Conditions Upon Receipt
<input type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	Condition Y N Y N 1. CHILLED <input type="checkbox"/> <input type="checkbox"/> 2. HEADSPACE (VVA) <input type="checkbox"/> <input type="checkbox"/> 3. CONTAINER INTACT <input type="checkbox"/> <input type="checkbox"/> 4. SEALED <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> ATL <input type="checkbox"/> On/Trac	5. # OF SAMPLES MATCH COC <input type="checkbox"/> <input type="checkbox"/> 6. PRESERVED <input type="checkbox"/> <input type="checkbox"/> 7. COOLER TEMP. deg. C: _____ 8. SEALED <input type="checkbox"/> <input type="checkbox"/>

Instruction: Complete all shaded areas.

Company: Padre Associates, Inc	Address: 1861 Knoll Drive	Tel: 805-644-2220
City: Ventura	State: CA	Fax: 805-644-2050
Attn: Eric Snelling	Email: esnelling@padreinc.com	
Company: Padre Associates, Inc	Address: 369 Pacific Street	
City: San Luis Obispo	State: CA	Zip: 93401

Project Name: Hydrogen Gas Pipeline - Phase II	Quote #: _____	Special Instructions/Comments: Use Padre Rate Sheet
Project No.: 1802-2611	PO #: 1802-2611	
Sampler: _____		

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Sample Description	Date	Time	Remarks
1	190352-11	HA-4-5'		8/15/19	1226	Hold
2	-12	HA-5-0.5'			1135	Hold
3	-13	HA-5-2'			1137	Hold
4	-14	HA-5-5'			1145	Hold
5	-15	HA-6-0.5'			1152	Hold
6	-16	HA-6-2'			1213	Hold
7	-17	HA-6-5'			1219	Hold
8	-18	HA-7-0.5'			1327	Hold
9	-19	HA-7-2'			1345	Hold
10	-20	HA-7-5'			1453	Hold

Requested Analysis	Sample Matrix	Container
<input type="checkbox"/> 8015 (DR) TMRD <input type="checkbox"/> 8015 (GRO) <input type="checkbox"/> 8260 / 624 (Volatiles) <input type="checkbox"/> 6010 / 7000 (Title 22 Metals) <input type="checkbox"/> 8082 (PCBs) <input type="checkbox"/> 8270 (Semi-Volatiles) <input type="checkbox"/> Select Analysis <input type="checkbox"/> Chlorinated herbicides 8151 <input type="checkbox"/> Reactivity (Cyanide and Sulfide) <input type="checkbox"/> Ignitability (1010) <input type="checkbox"/> Corrosivity 9045C	<input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Select Water Matrix <input type="checkbox"/> Select Wastewater Matrix <input type="checkbox"/> Select Non-aqueous Matrix <input type="checkbox"/> Enter Custom Matrix	Type: 1-Tube, 2-VOA, 3-Liter, 4-Pint, 5-Str, 6-Other, 7-Canister Material: 1-Glass, 2-Plastic, 3-Metal Preservative: 1-HCl, 2-HNO3, 3-H2SO4, 4-None, 5-2n(Ac), 6-NaOH, 7-Na2S2O3
Turnaround Time (TAT)	Quantity	Remarks
5	1	Hold
	1	Hold
	2	Hold
	1	Hold
	2	Hold
	1	Hold
	1	Hold
	2	Hold
	1	Hold

to the subcontract lab --- ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$7/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 - Hard copy and regenerated reports: \$17.50 per hard copy report; requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.

10. Rush TCI/STC samples: add 2 days to analysis TAT for extraction procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name) _____ Date: 8/15/19 Time: 1:00 PM
 Received by: (Signature and Printed Name) _____ Date: 8/15/19 Time: 1:07 PM
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____
 Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

As the authorized agent of the company above, I hereby guarantee payment as quoted.

Printed Name _____ Signature _____



CHAIN OF CUSTODY RECORD

Page 3 of 3

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

For Laboratory Use Only AT/COC Ver:20190413

Method of Transport: Client ATL FedEx GSO Other _____

Sample Conditions Upon Receipt: Condition Y N

1. CILLED	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
2. HEADSPACE (V/A)	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>
3. CONTAINER INTACT	<input type="checkbox"/>	7. COOLER TEMP. DEG C	<input type="checkbox"/>
4. SEALED	<input type="checkbox"/>		

Instruction: Complete all shaded areas.

Company: **Padre Associates, Inc** Address: 1861 Knoll Drive Venitru, CA 93003 Tel: 805-644-2220 Fax: 805-644-2050

Attn: **Eric Snelling** Email: esnelling@padreinc.com

Company: **Padre Associates, Inc** Address: 369 Pacific Street San Luis Obispo, CA 93401

Project Name: **Hydrogen Gas Pipeline - Phase II** Quote #: **805-786-2650 x 12**

Project No.: 1802-2611 PO #: 1802-2611

Sampler: **805-786-2650 x 12**

Requested Analysis:

<input type="checkbox"/>	8015 (DRO)	+MPC
<input type="checkbox"/>	8015 (GRO)	
<input type="checkbox"/>	8260 / 624 (Volatiles)	++
<input type="checkbox"/>	6010 / 7000 (Title 22 Metals)	++
<input type="checkbox"/>	8081 (Organochlorine Pesticides)	++
<input type="checkbox"/>	8082 (PCBs)	++
<input type="checkbox"/>	8270 (Semi-volatiles)	+
<input type="checkbox"/>	Select Analysis	
<input type="checkbox"/>	Chromated herbicides 8151	
<input type="checkbox"/>	Reactivity (Cyanide and Sulfide)	
<input type="checkbox"/>	Ignitability (1010)	
<input type="checkbox"/>	Corrosivity 9045c	

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	Special Instructions/Comments:
1	1903052-4	HA-8-0.5'	8/15/19	1405	Use Padre Rate Sheet
2	-22	HA-8-2'	8/15/19	1427	
3	-23	HA-8-5'	8/15/19	1434	
4	-24	HA-9-0.5'	8/15/19	1405	
5	-25	HA-9-2'	8/15/19	1505	
6	-26	HA-10-0.5'	8/15/19	1510	
7	-27	HA-10-2'	8/15/19	1505	

Sample Matrix	Soil	Solid	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Remarks
							5	1	Hold
								2	Hold
								1	Hold
								1	Hold
								2	Hold
								1	Hold
								2	Hold

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:

- Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
- Hard copy and regenerated reports: \$17.50 per hard copy report requested, \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.

10. Rush TAT/STLC samples: add 2 days to analysis TAT for extraction procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

to the subcontract lab -- ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:

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- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
- Hard copy and regenerated reports: \$17.50 per hard copy report requested, \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.

10. Rush TAT/STLC samples: add 2 days to analysis TAT for extraction procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Received by:	Signature and Printed Name	Date:	8/15/19	Time:	1607
Relinquished by:	Signature and Printed Name	Date:	8/15/19	Time:	1607

As the authorized agent of the company above, I hereby guarantee laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Printed Name: _____ Signature: _____



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

August 30, 2019
Workorder **19081045**

Rachelle Arada
Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755

Project: HA-7-2'

Dear Rachelle Arada:

It is the policy of Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with an appropriate explanation in the Analysis Report section of the Laboratory Report.

Sincerely,

Carly Wood
Laboratory Director
1135 Financial Blvd
Reno, NV 89502



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

Analytical Report

Workorder#: 19081045

Date Reported: 8/30/2019

Client: Advanced Technology Laboratories

Sampled By: Marco Ojeda

Project Name: HA-7-2'

PO #: SC13999-Standard TAT

Laboratory Accreditation Number: NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
19081045-01	HA-7-2'	08/15/2019 13:45	8/20/2019

Parameter	Method	Result	Units	PQL	Analyst	Date/Time Analyzed	Data Flag
Ignitability	EPA 1030	< 2.2	mm/sec	2.2	MA	08/23/2019 3:18	

Original

ADVANCED TECHNOLOGY
LABORATORIES

19081045

SUBCONTRACT ORDER

Work Order: 1903052

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada
(Rachelle.Arada@atlglobal.com)

RECEIVING LABORATORY:

Silver State Analytical Laboratories
1135 West Sunset Blvd., Suite A
Rocklin, CA 95756
Phone : (916) 543-4445
Fax:
PO#: SC13999- STANDARD TAT

Sampler: Mario Ojeda

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903052-19 / HA-7-2' 1030_SUB [Ignitability] 1-Glass Jar - 4 oz	09/02/19 17:00	Soil 08/29/19 13:45	08/15/19 13:45	

Released By <i>[Signature]</i>	Date 08/19/19	Received By <i>[Signature]</i>	Date 08/19/19
Released By	Date	Received By <i>[Signature]</i>	Date 8/20/19 @ 10:20



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

Definitions & Qualifiers

WO#: 19081045

Date: 8/30/2019

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

* - Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.

C - Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.

B - Analyte found above the PQL in associated method blank.

G - Calibration blank analyte detected above PQL.

H - Sample analyzed beyond holding time for this parameter.

J - Estimated Value; Analyte found between MDL and PQL limits.

L - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

R - RPD between sample and duplicate sample outside the RPD acceptance limits.

S - Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.

W - Sample temperature when received was out of limit as specified by method.

Original



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Number of Pages 16
Date Received 08/16/2019
Date Reported 09/09/2019

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
100021	08/16/2019	ATL

Project ID: 1903052
Project Name: PO# SC13999

Enclosed please find results of analyses of 10 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director

SUBCONTRACT ORDER

Work Order: 1903052

100021

SENDING LABORATORY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Rachele Arada
 (Rachele.Arada@atlglobal.com)

RECEIVING LABORATORY:

AETL
 2834 North Naomi Street
 Burbank, CA 91504
 Phone : (818) 845-8200
 Fax: (818) 845-8840
 PO#: SC13999- STANDARD TAT ✓

Sampler: Mario Ojeda

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903052-01 / HA-1-0.5' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 10:00	08/15/19 10:00	100021.01
ATL Lab#: 1903052-05 / HA-2-5' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 10:40	08/15/19 10:40	100021.02
ATL Lab#: 1903052-07 / HA-3-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 13:14	08/15/19 13:14	100021.03
ATL Lab#: 1903052-10 / HA-4-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 11:22	08/15/19 11:22	100021.04

Released By [Signature]	Date 8/16/19	Received By [Signature]	Date 8/16/19
Released By AG	Date 8/16/19	Received By [Signature]	Date 08/16/19 1030



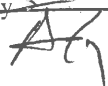
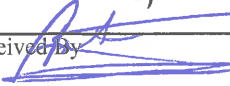

ADVANCED TECHNOLOGY
 LABORATORIES

SUBCONTRACT ORDER

Work Order: 1903052

100021

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903052-13 / HA-5-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 11:37	08/15/19 11:37	100021 . 05
ATL Lab#: 1903052-16 / HA-6-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 12:13	08/15/19 12:13	100021 . 06
ATL Lab#: 1903052-19 / HA-7-2' 8151_SUB [Chlorinated Herbicides] Reactive_Cyanide_SUB [Cyanide, Reactive] Reactive_Sulfide_SUB [Sulfide, Reactive] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 13:45	08/15/19 13:45	100021 . 07
ATL Lab#: 1903052-22 / HA-8-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 14:27	08/15/19 14:27	100021 . 08
ATL Lab#: 1903052-25 / HA-9-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 15:03	08/15/19 15:03	100021 . 09
ATL Lab#: 1903052-27 / HA-10-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/23/19 17:00	08/29/19 15:25	08/15/19 15:25	100021 . 10

Released By 	Date <u>8/16/19</u>	Received By 	Date <u>8/16/19</u>
Released By 	Date <u>8/16/19</u> <u>1030</u>	Received By 	Date <u>8/16/19</u> <u>1030</u>



AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: <u>ATL</u>			
Project Name:			
AETL Job Number: <u>100024</u>			
Date Received: <u>08/16/19</u>		Received by: <u>A.J.</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u>✓</u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>3-2</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>✓</u>		
2. Are the Sample labels legible?	<u>✓</u>		
3. Do samples match the COC?	<u>✓</u>		
4. Are the required analyses clear?	<u>✓</u>		
5. Is there enough samples for required analysis?	<u>✓</u>		
6. Are samples sealed with evidence tape?	<u>✓</u>	<u>✓</u>	
7. Are sample containers in good condition?	<u>✓</u>		
8. Are samples preserved?	<u>✓</u>		
9. Are samples preserved properly for the intended analysis?	<u>✓</u>		
10. Are the VOAs free of headspace?	<u>N/A</u>		
11. Are the jars free of headspace?	<u>✓</u>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 90 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 90 DAYS.

Explain all "No" answers for above questions:



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Project ID: 1903052
Date Received 08/16/2019
Date Reported 09/09/2019

Telephone: (562)989-4045
Attention: Rachele Arada

Job Number	Order Date	Client
100021	08/16/2019	ATL

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 10 samples with the following specification on 08/16/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
100021.01	1903052-01	08/15/2019	Soil	1	
100021.02	1903052-05	08/15/2019	Soil	1	
100021.03	1903052-07	08/15/2019	Soil	1	
100021.04	1903052-10	08/15/2019	Soil	1	
100021.05	1903052-13	08/15/2019	Soil	1	
100021.06	1903052-16	08/15/2019	Soil	1	
100021.08	1903052-22	08/15/2019	Soil	1	
100021.09	1903052-25	08/15/2019	Soil	1	
100021.10	1903052-27	08/15/2019	Soil	1	
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(8151A)	08/23/2019	2	Normal	ug/Kg
100021.07	1903052-19	08/15/2019	Soil		1
	Method ^ Submethod	Req Date	Priority	TAT	Units
	(8151A)	08/23/2019	2	Normal	ug/Kg
	(9010B-9030B)	08/23/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 2

Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			Method Blank	100021.01	100021.02		
Client Sample I.D.				1903052-01	1903052-05		
Date Sampled				08/15/2019	08/15/2019		
Date Prepared			08/19/2019	08/19/2019	08/19/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			08/21/2019	08/21/2019	08/21/2019		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Acifluorfen	20	20	ND	ND	ND		
Bentazon	10	10	ND	ND	ND		
Chloramben	10	10	ND	ND	ND		
2,4-D	10	10	ND	ND	ND		
Dalapon	20	20	ND	ND	ND		
2,4-DB	10	10	ND	ND	ND		
DCPA diacid	20	20	ND	ND	ND		
Dicamba	10	10	ND	ND	ND		
3,5-Dichlorobenzoic acid	10	10	ND	ND	ND		
Dichloroprop	10	10	ND	ND	ND		
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND	ND	ND		
MCPA	2000	2000	ND	ND	ND		
MCPP	2000	2000	ND	ND	ND		
4-Nitrophenol	10	10	ND	ND	ND		
Pentachlorophenol (PCP)	10	10	ND	ND	11.1		
Picloram	10	10	ND	ND	ND		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND	ND	ND		
2,4,5-TP	10	10	ND	ND	ND		
Our Lab I.D.			Method Blank	100021.01	100021.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
DCAA	40-150		75.8	88.4	58.0		



American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 3

Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.		100021.03	100021.04			
Client Sample I.D.		1903052-07	1903052-10			
Date Sampled		08/15/2019	08/15/2019			
Date Prepared		08/19/2019	08/19/2019			
Preparation Method		3550B	3550B			
Date Analyzed		08/21/2019	08/21/2019			
Matrix		Soil	Soil			
Units		ug/Kg	ug/Kg			
Dilution Factor		10	10			
Analytes	MDL	PQL	Results	Results		
Acifluorfen	200	200	ND	ND		
Bentazon	100	100	ND	ND		
Chloramben	100	100	ND	ND		
2,4-D	100	100	ND	ND		
Dalapon	200	200	ND	ND		
2,4-DB	100	100	ND	ND		
DCPA diacid	200	200	ND	ND		
Dicamba	100	100	ND	ND		
3,5-Dichlorobenzoic acid	100	100	ND	ND		
Dichloroprop	100	100	ND	ND		
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	200	200	ND	ND		
MCPA	20000	20000	ND	ND		
MCPP	20000	20000	ND	ND		
4-Nitrophenol	100	100	ND	ND		
Pentachlorophenol (PCP)	100	100	ND	170		
Picloram	100	100	ND	ND		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	100	100	ND	ND		
2,4,5-TP	100	100	ND	ND		

Comment(s):

100021.03: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.		100021.03	100021.04			
Surrogates	%Rec.Limit	% Rec.	% Rec.			
DCAA	40-150	41.8	53.4			



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Attn: Rachelle Arada

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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.		100021.05	100021.06			
Client Sample I.D.		1903052-13	1903052-16			
Date Sampled		08/15/2019	08/15/2019			
Date Prepared		08/19/2019	08/19/2019			
Preparation Method		3550B	3550B			
Date Analyzed		08/21/2019	08/21/2019			
Matrix		Soil	Soil			
Units		ug/Kg	ug/Kg			
Dilution Factor		2	2			
Analytes	MDL	PQL	Results	Results		
Acifluorfen	40	40	ND	ND		
Bentazon	20	20	ND	ND		
Chloramben	20	20	ND	ND		
2,4-D	20	20	ND	ND		
Dalapon	40	40	ND	ND		
2,4-DB	20	20	ND	ND		
DCPA diacid	40	40	ND	ND		
Dicamba	20	20	ND	ND		
3,5-Dichlorobenzoic acid	20	20	ND	ND		
Dichloroprop	20	20	ND	ND		
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	40	40	ND	ND		
MCPA	4000	4000	ND	ND		
MCPP	4000	4000	ND	ND		
4-Nitrophenol	20	20	ND	ND		
Pentachlorophenol (PCP)	20	20	ND	ND		
Picloram	20	20	ND	ND		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	20	20	ND	ND		
2,4,5-TP	20	20	ND	ND		

Comment(s):

100021.05: Analyzed under dilution due to matrix interferenc 100021.06: Analyzed under dilution due to matrix interferenc



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ANALYTICAL RESULTS

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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.		100021.05	100021.06			
Surrogates	%Rec.Limit	% Rec.	% Rec.			
DCAA	40-150	46.4	41.0			



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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100021.07			
Client Sample I.D.			1903052-19			
Date Sampled			08/15/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			40			
Analytes	MDL	PQL	Results			
Acifluorfen	800	800	ND			
Bentazon	400	400	ND			
Chloramben	400	400	ND			
2,4-D	400	400	ND			
Dalapon	800	800	ND			
2,4-DB	400	400	ND			
DCPA diacid	800	800	ND			
Dicamba	400	400	ND			
3,5-Dichlorobenzoic acid	400	400	ND			
Dichloroprop	400	400	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	800	800	ND			
MCPA	80000	80000	ND			
MCPP	80000	80000	ND			
4-Nitrophenol	400	400	ND			
Pentachlorophenol (PCP)	400	400	ND			
Picloram	400	400	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	400	400	ND			
2,4,5-TP	400	400	ND			

Comment(s):

100021.07: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 1903052
Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100021.07				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		127				



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Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100021.08			
Client Sample I.D.			1903052-22			
Date Sampled			08/15/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acifluorfen	20	20	ND			
Bentazon	10	10	ND			
Chloramben	10	10	ND			
2,4-D	10	10	ND			
Dalapon	20	20	ND			
2,4-DB	10	10	ND			
DCPA diacid	20	20	ND			
Dicamba	10	10	ND			
3,5-Dichlorobenzoic acid	10	10	ND			
Dichloroprop	10	10	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND			
MCPA	2000	2000	ND			
MCPP	2000	2000	ND			
4-Nitrophenol	10	10	ND			
Pentachlorophenol (PCP)	10	10	ND			
Picloram	10	10	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND			
2,4,5-TP	10	10	ND			
Our Lab I.D.			100021.08			
Surrogates	%Rec.Limit		% Rec.			
DCAA	40-150		47.2			



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Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100021.09			
Client Sample I.D.			1903052-25			
Date Sampled			08/15/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			4			
Analytes	MDL	PQL	Results			
Acifluorfen	80	80	ND			
Bentazon	40	40	ND			
Chloramben	40	40	ND			
2,4-D	40	40	ND			
Dalapon	80	80	ND			
2,4-DB	40	40	ND			
DCPA diacid	80	80	ND			
Dicamba	40	40	ND			
3,5-Dichlorobenzoic acid	40	40	ND			
Dichloroprop	40	40	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	80	80	ND			
MCPA	8000	8000	ND			
MCPP	8000	8000	ND			
4-Nitrophenol	40	40	ND			
Pentachlorophenol (PCP)	40	40	ND			
Picloram	40	40	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	40	40	ND			
2,4,5-TP	40	40	ND			

Comment(s):

100021.09: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.		100021.09				
Surrogates	%Rec.Limit	% Rec.				
DCAA	40-150	42.8				



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Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100021.10			
Client Sample I.D.			1903052-27			
Date Sampled			08/15/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			10			
Analytes	MDL	PQL	Results			
Acifluorfen	200	200	ND			
Bentazon	100	100	ND			
Chloramben	100	100	ND			
2,4-D	100	100	ND			
Dalapon	200	200	ND			
2,4-DB	100	100	ND			
DCPA diacid	200	200	ND			
Dicamba	100	100	ND			
3,5-Dichlorobenzoic acid	100	100	ND			
Dichloroprop	100	100	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	200	200	ND			
MCPA	20000	20000	ND			
MCPP	20000	20000	ND			
4-Nitrophenol	100	100	ND			
Pentachlorophenol (PCP)	100	100	ND			
Picloram	100	100	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	100	100	ND			
2,4,5-TP	100	100	ND			

Comment(s):

100021.10: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100021.10				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		77.8				



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Project ID: 1903052
 Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (9010B-9030B), Reactive cyanide and sulfide (Reactivity)

QC Batch No: CSR090919-1

Our Lab I.D.		Method Blank	100021.07			
Client Sample I.D.			1903052-19			
Date Sampled			08/15/2019			
Date Prepared		09/09/2019	09/09/2019			
Preparation Method		9010-9030	9010-9030			
Date Analyzed		09/09/2019	09/09/2019			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Cyanide (Reactive)	0.25	0.50	ND	ND		
Sulfide (Reactive)	0.25	0.50	ND	ND		



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QUALITY CONTROL RESULTS

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Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1; Dup or Spiked Sample: 100021.02; LCS: Clean Sand; QC Prepared: 08/19/2019; QC Analyzed: 08/21/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
2,4-D	0.00	25.0	10.6	42.4	25.0	10.9	43.6	2.79	40-140	<40
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	0.00	25.0	14.4	57.6	25.0	11.0	44.0	26.8	40-140	<40
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.00	25.0	12.2	48.8	25.0	10.9	43.6	11.3	40-140	<40
Surrogates										
DCAA	0.00	50.0	44.5	89.0	50.0	28.9	57.8	35.1	40-140	<40

QC Batch No: 081919MB1; Dup or Spiked Sample: 100021.02; LCS: Clean Sand; QC Prepared: 08/19/2019; QC Analyzed: 08/21/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
2,4-D	25.0	15.0	60.0	25.0	14.7	58.8	2.02	50-140	<40
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	25.0	15.6	62.4	25.0	16.1	64.4	3.15	50-140	<40
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	25.0	14.6	58.4	25.0	15.3	61.2	4.68	50-140	<40
LCS									
Dalapon	25.0	31.0	124	25.0	31.2	125	<1	50-140	<40
2,4-DB	25.0	12.8	51.2	25.0	12.6	50.4	1.57	50-140	<40
Dicamba	25.0	14.3	57.2	25.0	14.5	58.0	1.39	50-140	<40
Dichloroprop	25.0	19.8	79.2	25.0	24.6	98.4	21.6	50-140	<40
MCPA	2,500	1,860	74.6	2,500	1,840	73.5	1.49	50-140	<40
MCPP	2,500	2,190	87.6	2,500	2,150	86.0	1.84	50-140	<40
2,4,5-TP	25.0	15.9	63.6	25.0	16.8	67.2	5.50	50-140	<40
Surrogates									
DCAA	50.0	25.3	50.6	50.0	36.1	72.2	42.7	50-140	<40



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Page: **16**

Project ID: 1903052

Project Name: PO# SC13999

AETL Job Number	Submitted	Client
100021	08/16/2019	ATL

Method: (9010B-9030B), Reactive cyanide and sulfide (Reactivity)

QC Batch No: CSR090919-1; Dup or Spiked Sample: 100021.07; LCS: Clean Sand; LCS Prepared: 09/09/2019;
 LCS Analyzed: 09/09/2019; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Cyanide	0.200	0.166	83.0	0.200	0.160	80.0	3.7	60-120	<15	
Sulfides	0.200	0.160	80.0	0.200	0.162	81.0	1.2	60-120	<15	



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Carmen Aguila

From: Eric Snelling <esnelling@padreinc.com>
Sent: Thursday, August 29, 2019 5:10 PM
To: Carmen Aguila
Cc: Advanced Technology Laboratories - customer.relations@atlglobal.com
Subject: RE: Partial Results - Hydrogen Gas Pipeline - Phase II, 1802-2611, ATL#1903052

Hi Carmen:

Please run the following samples for soluble metals:

Sample No.	Lab No.	Analyses
HA-4-2'	1903052-10	STLC and TCLP – Pb
HA-5-2'	1903052-13	STLC and TCLP – Pb
HA-6-2'	1903052-16	STLC – Pb
HA-8-2'	1903052-22	STLC and TCLP – Pb
HA-9-2'	1903052-25	STLC – Pb and Cu
HA-10-2'	1903052-27	STLC – Pb

Thanks,
Eric Snelling

From: Carmen Aguila <Carmen.Aguila@atlglobal.com>
Sent: Thursday, August 29, 2019 2:53 PM
To: Eric Snelling <esnelling@padreinc.com>
Cc: Advanced Technology Laboratories - customer.relations@atlglobal.com <customer.relations@atlglobal.com>
Subject: Partial Results - Hydrogen Gas Pipeline - Phase II, 1802-2611, ATL#1903052

Good afternoon Eric,

Please find your results for the above project attached. Pending subcontracted 8151, Reactivity (Cyanide& Sulfide) and Ignitability. If I can further assist, please let me know.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Thank you,



Carmen Aguila | Project Manager
ADVANCED TECHNOLOGY LABORATORIES
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Tel: 562.989.4045 ext. 245 | Fax: 562.989.6348 | Mobile: 562.715.8770
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September 13, 2019

Eric Snelling
Padre Associates, Inc.
369 Pacific Street
San Luis Obispo, CA 93401
Tel: (805) 786-2650
Fax:(805) 786-2651

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1903075

Client Reference : Hydrogen Gas Pipeline - Phase II, 1802-2611

Enclosed are the results for sample(s) received on August 16, 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edgar Caballero', with a small 'Ar' written below it.

Edgar Caballero
President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-11-2'	1903075-02	Soil	8/16/19 7:43	8/16/19 16:15
HA-12-5'	1903075-05	Soil	8/16/19 10:52	8/16/19 16:15
HA-13-0.5'	1903075-06	Soil	8/16/19 10:58	8/16/19 16:15
HA-14-2'	1903075-08	Soil	8/16/19 11:45	8/16/19 16:15
HA-15-2'	1903075-11	Soil	8/16/19 12:52	8/16/19 16:15
HA-16-2'	1903075-14	Soil	8/16/19 13:13	8/16/19 16:15
HA-17-2'	1903075-17	Soil	8/16/19 13:31	8/16/19 16:15
HA-18-5'	1903075-21	Soil	8/16/19 14:10	8/16/19 16:15
HA-19-2'	1903075-23	Soil	8/16/19 15:30	8/16/19 16:15

CASE NARRATIVE

The samples for Herbicides (EPA 8151) and Reactivity (Cyanide & Sulfide) analyses were subcontracted to AETL with ELAP Cert.# 1541.

The sample for Ignitibility (EPA 1030) analysis was subcontracted to Silver State Laboratories with ELAP # 2990.



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-11-2'

Lab ID: 1903075-02

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Arsenic	12	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Barium	120	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Chromium	14	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Cobalt	7.1	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Copper	34	2.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Lead	350	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Nickel	14	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Vanadium	28	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	
Zinc	500	1.0	1	B9H0489	08/21/2019	08/23/19 19:05	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.1	0.25	5	B9I0306	09/10/2019	09/11/19 12:31	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	65	1.0	20	B9I0350	09/11/2019	09/12/19 14:29	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.84	0.10	1	B9H0491	08/21/2019	08/22/19 18:15	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-11-2'

Lab ID: 1903075-02

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 04:42	
<i>Surrogate: 4-Bromofluorobenzene</i>	94.5 %	45 - 149		B9H0512	08/22/2019	08/22/19 04:42	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	840	25	25	B9H0507	08/21/2019	08/22/19 04:52	
ORO	2200	25	25	B9H0507	08/21/2019	08/22/19 04:52	
<i>Surrogate: p-Terphenyl</i>	0%	34 - 158		B9H0507	08/21/2019	08/22/19 04:52	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
4,4'-DDE	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
4,4'-DDT	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Aldrin	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
alpha-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
alpha-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
beta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Chlordane	ND	170	20	B9H0470	08/21/2019	08/22/19 11:20	D1
delta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Dieldrin	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endosulfan I	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endosulfan II	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endosulfan sulfate	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endrin	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endrin aldehyde	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Endrin ketone	ND	40	20	B9H0470	08/21/2019	08/22/19 11:20	D1
gamma-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
gamma-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Heptachlor	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Heptachlor epoxide	ND	20	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Methoxychlor	ND	100	20	B9H0470	08/21/2019	08/22/19 11:20	D1
Toxaphene	ND	1000	20	B9H0470	08/21/2019	08/22/19 11:20	D1



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-11-2'

Lab ID: 1903075-02

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	70.9 %	32 - 91		B9H0470	08/21/2019	08/22/19 11:20	
Surrogate: Tetrachloro-m-xylene	38.3 %	38 - 93		B9H0470	08/21/2019	08/22/19 11:20	

Polychlorinated Biphenyls by EPA 8082

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1221	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1232	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1242	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1248	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1254	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1260	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1262	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Aroclor 1268	ND	16	1	B9H0470	08/21/2019	08/22/19 19:10	
Surrogate: Decachlorobiphenyl	71.1 %	40 - 121		B9H0470	08/21/2019	08/22/19 19:10	
Surrogate: Tetrachloro-m-xylene	19.4 %	55 - 105		B9H0470	08/21/2019	08/22/19 19:10	S10

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-11-2'

Lab ID: 1903075-02

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:01	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 15:01	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 15:01	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-11-2'

Lab ID: 1903075-02

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 15:01	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:01	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:01	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 15:01</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.7 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 15:01</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>111 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 15:01</i>	
<i>Surrogate: Toluene-d8</i>	<i>94.9 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 15:01</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	4.2	2.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Arsenic	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Barium	58	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Chromium	200	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Cobalt	4.4	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Copper	66	2.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Lead	410	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Nickel	29	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Vanadium	15	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	
Zinc	220	1.0	1	B9H0489	08/21/2019	08/23/19 19:11	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chromium	12	0.25	5	B9I0306	09/10/2019	09/11/19 12:33	
Lead	3.7	0.25	5	B9I0306	09/10/2019	09/11/19 12:33	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Chromium	39	1.0	20	B9I0350	09/11/2019	09/12/19 14:30	
Lead	26	1.0	20	B9I0350	09/11/2019	09/12/19 14:30	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.58	0.10	1	B9H0491	08/21/2019	08/22/19 18:24	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	1300	250	250	B9H0437	08/20/2019	08/20/19 14:25	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>148 %</i>	<i>45 - 149</i>		B9H0437	08/20/2019	<i>08/20/19 14:25</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	45000	1200	200	B9H0507	08/21/2019	08/22/19 06:01	
ORO	85000	1200	200	B9H0507	08/21/2019	08/22/19 06:01	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0507	08/21/2019	<i>08/22/19 06:01</i>	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
4,4'-DDE	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
4,4'-DDT	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Aldrin	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
alpha-BHC	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
alpha-Chlordane	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
beta-BHC	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Chlordane	ND	850	100	B9H0470	08/21/2019	08/22/19 11:31	D1
delta-BHC	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Dieldrin	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endosulfan I	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endosulfan II	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endosulfan sulfate	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endrin	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endrin aldehyde	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Endrin ketone	ND	200	100	B9H0470	08/21/2019	08/22/19 11:31	D1



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
gamma-BHC	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
gamma-Chlordane	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Heptachlor	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Heptachlor epoxide	ND	100	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Methoxychlor	ND	500	100	B9H0470	08/21/2019	08/22/19 11:31	D1
Toxaphene	ND	5000	100	B9H0470	08/21/2019	08/22/19 11:31	D1
<i>Surrogate: Decachlorobiphenyl</i>	0%	32 - 91		B9H0470	08/21/2019	08/22/19 11:31	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	38 - 93		B9H0470	08/21/2019	08/22/19 11:31	S4

Polychlorinated Biphenyls by EPA 8082

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1221	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1232	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1242	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1248	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1254	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1260	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1262	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
Aroclor 1268	ND	160	10	B9H0470	08/21/2019	08/22/19 21:03	D1
<i>Surrogate: Decachlorobiphenyl</i>	327 %	40 - 121		B9H0470	08/21/2019	08/22/19 21:03	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	31.2 %	55 - 105		B9H0470	08/21/2019	08/22/19 21:03	S10

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1,1-Trichloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1,2,2-Tetrachloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1,2-Trichloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1-Dichloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1-Dichloroethene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,1-Dichloropropene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2,3-Trichloropropane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,3-Trichlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2,4-Trichlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2,4-Trimethylbenzene	15000	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2-Dibromo-3-chloropropane	ND	1000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2-Dibromoethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2-Dichlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2-Dichloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,2-Dichloropropane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,3,5-Trimethylbenzene	6300	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,3-Dichlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,3-Dichloropropane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
1,4-Dichlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
2,2-Dichloropropane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
2-Chlorotoluene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
4-Chlorotoluene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
4-Isopropyltoluene	2300	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Benzene	1200	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Bromobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Bromochloromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Bromodichloromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Bromoform	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Bromomethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Carbon disulfide	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Carbon tetrachloride	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Chlorobenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Chloroethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Chloroform	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Chloromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
cis-1,2-Dichloroethene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
cis-1,3-Dichloropropene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Di-isopropyl ether	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Dibromochloromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Dibromomethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Dichlorodifluoromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Ethyl Acetate	ND	5000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Ethyl Ether	ND	5000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Ethyl tert-butyl ether	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	4700	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Freon-113	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Hexachlorobutadiene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Isopropylbenzene	4900	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
m,p-Xylene	14000	1000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Methylene chloride	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
MTBE	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
n-Butylbenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
n-Propylbenzene	3300	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Naphthalene	4400	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
o-Xylene	6900	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
sec-Butylbenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Styrene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
tert-Amyl methyl ether	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
tert-Butanol	ND	10000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
tert-Butylbenzene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Tetrachloroethene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Toluene	3500	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
trans-1,2-Dichloroethene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
trans-1,3-Dichloropropene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Trichloroethene	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Trichlorofluoromethane	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Vinyl acetate	ND	5000	100	B9H0403	08/19/2019	08/19/19 18:09	D6
Vinyl chloride	ND	500	100	B9H0403	08/19/2019	08/19/19 18:09	D6
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>87.8 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 18:09</i>	D6
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>122 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 18:09</i>	D6, S7
<i>Surrogate: Dibromofluoromethane</i>	<i>92.0 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 18:09</i>	D6
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 18:09</i>	D6



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
1,2-Dichlorobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
1,3-Dichlorobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
1,4-Dichlorobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4,5-Trichlorophenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4,6-Trichlorophenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4-Dichlorophenol	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4-Dimethylphenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4-Dinitrophenol	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,4-Dinitrotoluene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2,6-Dinitrotoluene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Chloronaphthalene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Chlorophenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Methylnaphthalene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Methylphenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Nitroaniline	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
2-Nitrophenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
3,3'-Dichlorobenzidine	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
3-Nitroaniline	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4,6-Dinitro-2-methylphenol	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Bromophenyl-phenylether	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Chloro-3-methylphenol	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Chloroaniline	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Chlorophenyl-phenylether	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Methylphenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Nitroaniline	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
4-Nitrophenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Acenaphthene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Acenaphthylene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Anthracene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzidine (M)	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzo(a)anthracene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzo(a)pyrene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzo(b)fluoranthene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzo(g,h,i)perylene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzo(k)fluoranthene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Benzoic acid	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl alcohol	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
bis(2-chloroethoxy)methane	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
bis(2-Chloroethyl)ether	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
bis(2-chloroisopropyl)ether	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
bis(2-ethylhexyl)phthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Butylbenzylphthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Chrysene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Di-n-butylphthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Di-n-octylphthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Dibenz(a,h)anthracene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Dibenzofuran	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Diethyl phthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Dimethyl phthalate	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Fluoranthene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Fluorene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Hexachlorobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Hexachlorobutadiene	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Hexachlorocyclopentadiene	ND	3300000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Hexachloroethane	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Indeno(1,2,3-cd)pyrene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Isophorone	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
N-Nitroso-di-n propylamine	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
N-Nitrosodiphenylamine	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Naphthalene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Nitrobenzene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Pentachlorophenol	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Phenanthrene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Phenol	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Pyrene	ND	1600000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
Pyridine	ND	8200000	200	B9H0510	08/21/2019	08/21/19 19:56	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>	<i>28 - 77</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>	<i>17 - 157</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>	<i>35 - 98</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>	<i>35 - 88</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>	<i>32 - 88</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>	<i>35 - 114</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>	<i>27 - 80</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	<i>S4</i>



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-12-5'

Lab ID: 1903075-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: SP

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Phenol-d6</i>	<i>0%</i>	<i>35 - 98</i>		B9H0510	08/21/2019	<i>08/21/19 19:56</i>	S4

pH by EPA 9045C

Analyst: DT

Analyte	Result (pH Units)	PQL (pH Units)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
pH	5.9	0.10	1	B9H0427	08/19/2019	08/19/19 14:21	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-13-0.5'

Lab ID: 1903075-06

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Arsenic	2.2	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Barium	240	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Chromium	15	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Cobalt	6.7	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Copper	35	2.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Lead	140	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Nickel	16	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Vanadium	32	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	
Zinc	170	1.0	1	B9H0489	08/21/2019	08/23/19 19:13	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	5	B9I0306	09/10/2019	09/11/19 12:37	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.9	1.0	20	B9I0350	09/11/2019	09/12/19 14:31	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.33	0.10	1	B9H0491	08/21/2019	08/22/19 18:26	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-13-0.5'

Lab ID: 1903075-06

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 05:01	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.6 %	45 - 149		B9H0512	08/22/2019	08/22/19 05:01	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	170	5.0	5	B9H0507	08/21/2019	08/22/19 04:18	
ORO	470	5.0	5	B9H0507	08/21/2019	08/22/19 04:18	
<i>Surrogate: p-Terphenyl</i>	38.9 %	34 - 158		B9H0507	08/21/2019	08/22/19 04:18	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
4,4'-DDE	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
4,4'-DDT	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Aldrin	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
alpha-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
alpha-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
beta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Chlordane	ND	170	20	B9H0470	08/21/2019	08/22/19 11:42	D1
delta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Dieldrin	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endosulfan I	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endosulfan II	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endosulfan sulfate	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endrin	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endrin aldehyde	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Endrin ketone	ND	40	20	B9H0470	08/21/2019	08/22/19 11:42	D1
gamma-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
gamma-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Heptachlor	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Heptachlor epoxide	ND	20	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Methoxychlor	ND	100	20	B9H0470	08/21/2019	08/22/19 11:42	D1
Toxaphene	ND	1000	20	B9H0470	08/21/2019	08/22/19 11:42	D1



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-13-0.5'

Lab ID: 1903075-06

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	122 %	32 - 91		B9H0470	08/21/2019	08/22/19 11:42	S10
Surrogate: Tetrachloro-m-xylene	87.4 %	38 - 93		B9H0470	08/21/2019	08/22/19 11:42	

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1221	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1232	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1242	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1248	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1254	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1260	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1262	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Aroclor 1268	ND	32	2	B9H0470	08/21/2019	08/22/19 15:08	D1
Surrogate: Decachlorobiphenyl	90.6 %	40 - 121		B9H0470	08/21/2019	08/22/19 15:08	
Surrogate: Tetrachloro-m-xylene	58.7 %	55 - 105		B9H0470	08/21/2019	08/22/19 15:08	

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-13-0.5'

Lab ID: 1903075-06

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:20	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 15:20	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 15:20	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-13-0.5'

Lab ID: 1903075-06

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 15:20	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:20	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 15:20</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.2 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 15:20</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 15:20</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.8 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 15:20</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-14-2'

Lab ID: 1903075-08

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Arsenic	3.6	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Barium	190	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Chromium	18	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Cobalt	7.2	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Copper	54	2.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Lead	800	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Nickel	17	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Vanadium	32	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	
Zinc	790	1.0	1	B9H0489	08/21/2019	08/23/19 19:14	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.9	0.25	5	B9I0306	09/10/2019	09/11/19 12:39	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	180	1.0	20	B9I0350	09/11/2019	09/12/19 14:33	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	1.1	0.10	1	B9H0491	08/21/2019	08/22/19 18:28	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-14-2'

Lab ID: 1903075-08

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	1.3	1.0	1	B9H0512	08/22/2019	08/22/19 05:20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>131 %</i>	<i>45 - 149</i>		B9H0512	08/22/2019	08/22/19 05:20	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8900	200	100	B9H0507	08/21/2019	08/22/19 05:44	
ORO	18000	200	100	B9H0507	08/21/2019	08/22/19 05:44	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0507	08/21/2019	08/22/19 05:44	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
4,4'-DDE	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
4,4'-DDT	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Aldrin	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
alpha-BHC	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
alpha-Chlordane	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
beta-BHC	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Chlordane	ND	420	50	B9H0470	08/21/2019	08/22/19 11:53	D1
delta-BHC	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Dieldrin	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endosulfan I	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endosulfan II	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endosulfan sulfate	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endrin	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endrin aldehyde	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Endrin ketone	ND	100	50	B9H0470	08/21/2019	08/22/19 11:53	D1
gamma-BHC	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
gamma-Chlordane	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Heptachlor	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Heptachlor epoxide	ND	50	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Methoxychlor	ND	250	50	B9H0470	08/21/2019	08/22/19 11:53	D1
Toxaphene	ND	2500	50	B9H0470	08/21/2019	08/22/19 11:53	D1



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-14-2'

Lab ID: 1903075-08

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Decachlorobiphenyl</i>	0%	32 - 91		B9H0470	08/21/2019	08/22/19 11:53	S4
<i>Surrogate: Tetrachloro-m-xylene</i>	0%	38 - 93		B9H0470	08/21/2019	08/22/19 11:53	S4

Polychlorinated Biphenyls by EPA 8082

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1221	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1232	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1242	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1248	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1254	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1260	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1262	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
Aroclor 1268	ND	160	10	B9H0470	08/21/2019	08/22/19 21:22	D1
<i>Surrogate: Decachlorobiphenyl</i>	76.2 %	40 - 121		B9H0470	08/21/2019	08/22/19 21:22	
<i>Surrogate: Tetrachloro-m-xylene</i>	18.2 %	55 - 105		B9H0470	08/21/2019	08/22/19 21:22	S10

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2,4-Trimethylbenzene	15	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-14-2'

Lab ID: 1903075-08

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,3,5-Trimethylbenzene	9.6	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:39	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 15:39	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Isopropylbenzene	6.3	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
m,p-Xylene	12	10	1	B9H0403	08/19/2019	08/19/19 15:39	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-14-2'

Lab ID: 1903075-08

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Naphthalene	7.2	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
o-Xylene	9.2	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 15:39	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:39	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:39	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.4 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 15:39</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.6 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 15:39</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 15:39</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.7 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 15:39</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-15-2'

Lab ID: 1903075-11

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Arsenic	4.5	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Barium	150	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Chromium	10	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Cobalt	7.6	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Copper	26	2.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Lead	33	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Nickel	11	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Vanadium	26	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	
Zinc	74	1.0	1	B9H0489	08/21/2019	08/23/19 19:15	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.12	0.10	1	B9H0491	08/21/2019	08/22/19 18:30	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 05:38	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.9 %</i>	<i>45 - 149</i>		B9H0512	08/22/2019	<i>08/22/19 05:38</i>	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.9	1.0	1	B9H0507	08/21/2019	08/22/19 03:09	
ORO	11	1.0	1	B9H0507	08/21/2019	08/22/19 03:09	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-15-2'

Lab ID: 1903075-11

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: p-Terphenyl</i>	<i>134 %</i>	<i>34 - 158</i>		B9H0507	08/21/2019	<i>08/22/19 03:09</i>	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
4,4'-DDE	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
4,4'-DDT	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Aldrin	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
alpha-BHC	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
alpha-Chlordane	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
beta-BHC	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Chlordane	ND	8.5	1	B9H0470	08/21/2019	08/22/19 12:04	
delta-BHC	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Dieldrin	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endosulfan I	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endosulfan II	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endosulfan sulfate	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endrin	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endrin aldehyde	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Endrin ketone	ND	2.0	1	B9H0470	08/21/2019	08/22/19 12:04	
gamma-BHC	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
gamma-Chlordane	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Heptachlor	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Heptachlor epoxide	ND	1.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Methoxychlor	ND	5.0	1	B9H0470	08/21/2019	08/22/19 12:04	
Toxaphene	ND	50	1	B9H0470	08/21/2019	08/22/19 12:04	
<i>Surrogate: Decachlorobiphenyl</i>	<i>62.2 %</i>	<i>32 - 91</i>		B9H0470	08/21/2019	<i>08/22/19 12:04</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>67.2 %</i>	<i>38 - 93</i>		B9H0470	08/21/2019	<i>08/22/19 12:04</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-15-2'

Lab ID: 1903075-11

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1221	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1232	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1242	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1248	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1254	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1260	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1262	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
Aroclor 1268	ND	16	1	B9H0470	08/21/2019	08/22/19 13:53	
<i>Surrogate: Decachlorobiphenyl</i>	67.3 %	40 - 121		B9H0470	08/21/2019	08/22/19 13:53	
<i>Surrogate: Tetrachloro-m-xylene</i>	68.9 %	55 - 105		B9H0470	08/21/2019	08/22/19 13:53	

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-15-2'

Lab ID: 1903075-11

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:58	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 15:58	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 15:58	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-15-2'

Lab ID: 1903075-11

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 15:58	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 15:58	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 15:58	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>94.4 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 15:58</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.0 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 15:58</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 15:58</i>	
<i>Surrogate: Toluene-d8</i>	<i>98.2 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 15:58</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-16-2'

Lab ID: 1903075-14

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Arsenic	3.5	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Barium	150	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Chromium	19	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Cobalt	9.8	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Copper	90	2.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Lead	91	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Nickel	15	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Vanadium	34	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	
Zinc	140	1.0	1	B9H0489	08/21/2019	08/23/19 19:16	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.1	1.0	20	B9I0350	09/11/2019	09/12/19 14:34	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.11	0.10	1	B9H0491	08/21/2019	08/22/19 18:37	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 05:57	
Surrogate: 4-Bromofluorobenzene	97.4 %	45 - 149		B9H0512	08/22/2019	08/22/19 05:57	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-16-2'

Lab ID: 1903075-14

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.1	1.0	1	B9H0507	08/21/2019	08/22/19 04:00	
ORO	17	1.0	1	B9H0507	08/21/2019	08/22/19 04:00	
<i>Surrogate: p-Terphenyl</i>	<i>67.2 %</i>	<i>34 - 158</i>		B9H0507	08/21/2019	<i>08/22/19 04:00</i>	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
4,4'-DDE	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
4,4'-DDT	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Aldrin	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
alpha-BHC	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
alpha-Chlordane	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
beta-BHC	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Chlordane	ND	17	2	B9H0470	08/21/2019	08/22/19 10:59	D1
delta-BHC	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Dieldrin	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endosulfan I	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endosulfan II	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endosulfan sulfate	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endrin	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endrin aldehyde	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Endrin ketone	ND	4.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
gamma-BHC	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
gamma-Chlordane	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Heptachlor	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Heptachlor epoxide	ND	2.0	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Methoxychlor	ND	10	2	B9H0470	08/21/2019	08/22/19 10:59	D1
Toxaphene	ND	100	2	B9H0470	08/21/2019	08/22/19 10:59	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>126 %</i>	<i>32 - 91</i>		B9H0470	08/21/2019	<i>08/22/19 10:59</i>	<i>S10</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>77.7 %</i>	<i>38 - 93</i>		B9H0470	08/21/2019	<i>08/22/19 10:59</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-16-2'

Lab ID: 1903075-14

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1221	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1232	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1242	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1248	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1254	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1260	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1262	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
Aroclor 1268	ND	16	1	B9H0470	08/21/2019	08/22/19 14:12	
<i>Surrogate: Decachlorobiphenyl</i>	<i>133 %</i>	<i>40 - 121</i>		B9H0470	08/21/2019	<i>08/22/19 14:12</i>	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>71.5 %</i>	<i>55 - 105</i>		B9H0470	08/21/2019	<i>08/22/19 14:12</i>	

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-16-2'

Lab ID: 1903075-14

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 16:53	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 16:53	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 16:53	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-16-2'

Lab ID: 1903075-14

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 16:53	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 16:53	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 16:53	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.6 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 16:53</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.1 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 16:53</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 16:53</i>	
<i>Surrogate: Toluene-d8</i>	<i>93.2 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 16:53</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-17-2'

Lab ID: 1903075-17

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Arsenic	4.8	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Barium	140	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Chromium	20	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Cobalt	6.9	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Copper	130	2.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Lead	620	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Nickel	17	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Vanadium	31	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	
Zinc	270	1.0	1	B9H0489	08/21/2019	08/23/19 19:18	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	5	B9I0306	09/10/2019	09/11/19 12:40	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.3	1.0	20	B9I0350	09/11/2019	09/12/19 14:36	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.51	0.10	1	B9H0491	08/21/2019	08/22/19 20:01	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-17-2'

Lab ID: 1903075-17

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 06:16	
<i>Surrogate: 4-Bromofluorobenzene</i>	97.9 %	45 - 149		B9H0512	08/22/2019	08/22/19 06:16	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	370	5.0	5	B9H0507	08/21/2019	08/22/19 04:35	
ORO	710	5.0	5	B9H0507	08/21/2019	08/22/19 04:35	
<i>Surrogate: p-Terphenyl</i>	82.6 %	34 - 158		B9H0507	08/21/2019	08/22/19 04:35	

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
4,4'-DDE	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
4,4'-DDT	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Aldrin	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
alpha-BHC	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
alpha-Chlordane	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
beta-BHC	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Chlordane	ND	42	5	B9H0470	08/21/2019	08/22/19 12:15	D1
delta-BHC	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Dieldrin	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endosulfan I	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endosulfan II	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endosulfan sulfate	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endrin	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endrin aldehyde	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Endrin ketone	ND	10	5	B9H0470	08/21/2019	08/22/19 12:15	D1
gamma-BHC	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
gamma-Chlordane	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Heptachlor	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Heptachlor epoxide	ND	5.0	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Methoxychlor	ND	25	5	B9H0470	08/21/2019	08/22/19 12:15	D1
Toxaphene	ND	250	5	B9H0470	08/21/2019	08/22/19 12:15	D1



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-17-2'

Lab ID: 1903075-17

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	59.1 %	32 - 91		B9H0470	08/21/2019	08/22/19 12:15	
Surrogate: Tetrachloro-m-xylene	55.6 %	38 - 93		B9H0470	08/21/2019	08/22/19 12:15	

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1221	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1232	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1242	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1248	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1254	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1260	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1262	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Aroclor 1268	ND	16	1	B9H0470	08/21/2019	08/22/19 14:31	
Surrogate: Decachlorobiphenyl	81.2 %	40 - 121		B9H0470	08/21/2019	08/22/19 14:31	
Surrogate: Tetrachloro-m-xylene	41.4 %	55 - 105		B9H0470	08/21/2019	08/22/19 14:31	S10

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-17-2'

Lab ID: 1903075-17

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:12	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 17:12	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 17:12	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-17-2'

Lab ID: 1903075-17

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Naphthalene	6.4	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 17:12	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:12	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:12	
<hr/>							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.7 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 17:12</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88.8 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 17:12</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>105 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 17:12</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 17:12</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-18-5'

Lab ID: 1903075-21

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Arsenic	3.2	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Barium	120	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Chromium	17	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Cobalt	9.6	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Copper	47	2.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Lead	66	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Molybdenum	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Nickel	17	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Selenium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Vanadium	31	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	
Zinc	120	1.0	1	B9H0489	08/21/2019	08/23/19 19:19	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	1.0	20	B9I0350	09/11/2019	09/12/19 14:37	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.38	0.10	1	B9H0491	08/21/2019	08/22/19 18:42	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 06:34	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86.6 %</i>	<i>45 - 149</i>		B9H0512	08/22/2019	<i>08/22/19 06:34</i>	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-18-5'

Lab ID: 1903075-21

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9700	300	100	B9H0507	08/21/2019	08/22/19 14:06	
ORO	24000	300	100	B9H0507	08/21/2019	08/22/19 14:06	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>34 - 158</i>		B9H0507	08/21/2019	<i>08/22/19 14:06</i>	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
4,4'-DDE	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
4,4'-DDT	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Aldrin	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
alpha-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
alpha-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
beta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Chlordane	ND	170	20	B9H0470	08/21/2019	08/22/19 12:26	D1
delta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Dieldrin	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endosulfan I	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endosulfan II	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endosulfan sulfate	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endrin	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endrin aldehyde	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Endrin ketone	ND	40	20	B9H0470	08/21/2019	08/22/19 12:26	D1
gamma-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
gamma-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Heptachlor	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Heptachlor epoxide	ND	20	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Methoxychlor	ND	100	20	B9H0470	08/21/2019	08/22/19 12:26	D1
Toxaphene	ND	1000	20	B9H0470	08/21/2019	08/22/19 12:26	D1
<i>Surrogate: Decachlorobiphenyl</i>	<i>57.8 %</i>	<i>32 - 91</i>		B9H0470	08/21/2019	<i>08/22/19 12:26</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>38.5 %</i>	<i>38 - 93</i>		B9H0470	08/21/2019	<i>08/22/19 12:26</i>	



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-18-5'

Lab ID: 1903075-21

Polychlorinated Biphenyls by EPA 8082

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1221	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1232	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1242	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1248	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1254	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1260	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1262	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
Aroclor 1268	ND	32	2	B9H0470	08/21/2019	08/22/19 18:12	D1
<i>Surrogate: Decachlorobiphenyl</i>	56.5 %	40 - 121		B9H0470	08/21/2019	08/22/19 18:12	
<i>Surrogate: Tetrachloro-m-xylene</i>	56.1 %	55 - 105		B9H0470	08/21/2019	08/22/19 18:12	

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-18-5'

Lab ID: 1903075-21

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:31	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 17:31	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 17:31	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-18-5'

Lab ID: 1903075-21

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 17:31	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:31	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:31	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.5 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 17:31</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.3 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 17:31</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 17:31</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 17:31</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-19-2'

Lab ID: 1903075-23

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Arsenic	4.2	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Barium	180	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Beryllium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Cadmium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Chromium	57	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Cobalt	7.5	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Copper	460	2.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Lead	500	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Molybdenum	3.3	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Nickel	33	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Selenium	1.1	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Silver	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Thallium	ND	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Vanadium	39	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	
Zinc	250	1.0	1	B9H0489	08/21/2019	08/23/19 19:20	

TCLP Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.25	5	B9I0306	09/10/2019	09/11/19 12:42	

STLC Metals by ICP-AES by EPA 6010B

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Copper	23	1.0	20	B9I0350	09/11/2019	09/12/19 14:39	
Lead	27	1.0	20	B9I0350	09/11/2019	09/12/19 14:39	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.43	0.10	1	B9H0491	08/21/2019	08/22/19 20:03	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Client Sample ID: HA-19-2'

Lab ID: 1903075-23

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9H0512	08/22/2019	08/22/19 06:53	
Surrogate: 4-Bromofluorobenzene	87.9 %	45 - 149		B9H0512	08/22/2019	08/22/19 06:53	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6000	300	100	B9H0507	08/21/2019	08/22/19 05:27	
ORO	15000	300	100	B9H0507	08/21/2019	08/22/19 05:27	
Surrogate: p-Terphenyl	0%	34 - 158		B9H0507	08/21/2019	08/22/19 05:27	S4

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
4,4'-DDE	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
4,4'-DDT	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Aldrin	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
alpha-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
alpha-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
beta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Chlordane	ND	170	20	B9H0470	08/21/2019	08/22/19 12:37	D1
delta-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Dieldrin	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endosulfan I	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endosulfan II	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endosulfan sulfate	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endrin	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endrin aldehyde	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Endrin ketone	ND	40	20	B9H0470	08/21/2019	08/22/19 12:37	D1
gamma-BHC	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
gamma-Chlordane	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Heptachlor	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Heptachlor epoxide	ND	20	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Methoxychlor	ND	100	20	B9H0470	08/21/2019	08/22/19 12:37	D1
Toxaphene	ND	1000	20	B9H0470	08/21/2019	08/22/19 12:37	D1



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-19-2'

Lab ID: 1903075-23

Organochlorine Pesticides by EPA 8081

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Decachlorobiphenyl	45.1 %	32 - 91		B9H0470	08/21/2019	08/22/19 12:37	
Surrogate: Tetrachloro-m-xylene	38.5 %	38 - 93		B9H0470	08/21/2019	08/22/19 12:37	

Polychlorinated Biphenyls by EPA 8082

Analyst: BL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1221	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1232	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1242	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1248	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1254	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1260	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1262	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Aroclor 1268	ND	32	2	B9H0470	08/21/2019	08/22/19 18:51	D1
Surrogate: Decachlorobiphenyl	21.6 %	40 - 121		B9H0470	08/21/2019	08/22/19 18:51	S10
Surrogate: Tetrachloro-m-xylene	16.8 %	55 - 105		B9H0470	08/21/2019	08/22/19 18:51	S10

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1,1-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1,2-Trichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,1-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2,3-Trichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2,3-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2,4-Trichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2,4-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2-Dibromo-3-chloropropane	ND	10	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2-Dibromoethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2'

Report To : Eric Snelling

Reported : 09/13/2019

Client Sample ID: HA-19-2'

Lab ID: 1903075-23

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2-Dichloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,3,5-Trimethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,3-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,3-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
1,4-Dichlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
2,2-Dichloropropane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
2-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
4-Chlorotoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
4-Isopropyltoluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Benzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Bromobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Bromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Bromodichloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Bromoform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Bromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Carbon disulfide	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Carbon tetrachloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Chlorobenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Chloroethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Chloroform	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Chloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
cis-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
cis-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Di-isopropyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Dibromochloromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Dibromomethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Dichlorodifluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Ethyl Acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:50	
Ethyl Ether	ND	50	1	B9H0403	08/19/2019	08/19/19 17:50	
Ethyl tert-butyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Ethylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Freon-113	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Hexachlorobutadiene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Isopropylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
m,p-Xylene	ND	10	1	B9H0403	08/19/2019	08/19/19 17:50	
Methylene chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Client Sample ID: HA-19-2'

Lab ID: 1903075-23

Volatile Organic Compounds by EPA 8260B

Analyst: VW/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
n-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
n-Propylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Naphthalene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
o-Xylene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
sec-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Styrene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
tert-Amyl methyl ether	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
tert-Butanol	ND	100	1	B9H0403	08/19/2019	08/19/19 17:50	
tert-Butylbenzene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Tetrachloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Toluene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
trans-1,2-Dichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
trans-1,3-Dichloropropene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Trichloroethene	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Trichlorofluoromethane	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
Vinyl acetate	ND	50	1	B9H0403	08/19/2019	08/19/19 17:50	
Vinyl chloride	ND	5.0	1	B9H0403	08/19/2019	08/19/19 17:50	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>93.9 %</i>	<i>60 - 145</i>		B9H0403	08/19/2019	<i>08/19/19 17:50</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.2 %</i>	<i>68 - 121</i>		B9H0403	08/19/2019	<i>08/19/19 17:50</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>	<i>65 - 137</i>		B9H0403	08/19/2019	<i>08/19/19 17:50</i>	
<i>Surrogate: Toluene-d8</i>	<i>95.9 %</i>	<i>82 - 119</i>		B9H0403	08/19/2019	<i>08/19/19 17:50</i>	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0489 - EPA 3050B_S

Blank (B9H0489-BLK1)

Prepared: 8/21/2019 Analyzed: 8/26/2019

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B9H0489-BS1)

Prepared: 8/21/2019 Analyzed: 8/23/2019

Antimony	45.3004	2.0	0.51	50.0000	90.6	80 - 120
Arsenic	43.9864	1.0	0.12	50.0000	88.0	80 - 120
Barium	46.9751	1.0	0.12	50.0000	94.0	80 - 120
Beryllium	45.9930	1.0	0.03	50.0000	92.0	80 - 120
Cadmium	44.3012	1.0	0.14	50.0000	88.6	80 - 120
Chromium	47.6890	1.0	0.26	50.0000	95.4	80 - 120
Cobalt	46.5742	1.0	0.07	50.0000	93.1	80 - 120
Copper	48.5896	2.0	0.19	50.0000	97.2	80 - 120
Lead	45.8058	1.0	0.18	50.0000	91.6	80 - 120
Molybdenum	46.5420	1.0	0.12	50.0000	93.1	80 - 120
Nickel	49.2053	1.0	0.18	50.0000	98.4	80 - 120
Selenium	42.0322	1.0	0.40	50.0000	84.1	80 - 120
Silver	42.7940	1.0	0.12	50.0000	85.6	80 - 120
Thallium	46.4164	1.0	0.38	50.0000	92.8	80 - 120
Vanadium	48.0686	1.0	0.06	50.0000	96.1	80 - 120
Zinc	46.0196	1.0	0.15	50.0000	92.0	80 - 120

Matrix Spike (B9H0489-MS1)

Source: 1903075-02

Prepared: 8/21/2019 Analyzed: 8/23/2019

Antimony	59.2784	2.0	0.51	125.000	ND	47.4	21 - 95
Arsenic	94.8086	1.0	0.12	125.000	11.7834	66.4	46 - 97
Barium	211.002	1.0	0.12	125.000	118.929	73.7	24 - 123
Beryllium	92.6250	1.0	0.03	125.000	ND	74.1	47 - 99



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0489 - EPA 3050B_S (continued)

Matrix Spike (B9H0489-MS1) - Continued

Source: 1903075-02

Prepared: 8/21/2019 Analyzed: 8/23/2019

Cadmium	83.5130	1.0	0.14	125.000	0.332100	66.5	43 - 95			
Chromium	108.174	1.0	0.26	125.000	13.7378	75.5	39 - 109			
Cobalt	94.9012	1.0	0.07	125.000	7.10083	70.2	45 - 101			
Copper	144.090	2.0	0.19	125.000	33.7466	88.3	44 - 118			
Lead	531.062	1.0	0.18	125.000	353.687	142	33 - 121			M1
Molybdenum	91.5428	1.0	0.12	125.000	0.469313	72.9	45 - 101			
Nickel	108.030	1.0	0.18	125.000	13.5095	75.6	37 - 104			
Selenium	83.8581	1.0	0.40	125.000	ND	67.1	43 - 96			
Silver	90.0429	1.0	0.12	125.000	ND	72.0	49 - 104			
Thallium	80.8186	1.0	0.38	125.000	ND	64.7	23 - 103			
Vanadium	125.290	1.0	0.06	125.000	27.9086	77.9	42 - 109			
Zinc	690.156	1.0	0.15	125.000	502.226	150	22 - 114			M1

Matrix Spike Dup (B9H0489-MSD1)

Source: 1903075-02

Prepared: 8/21/2019 Analyzed: 8/23/2019

Antimony	59.9018	2.0	0.51	125.000	ND	47.9	21 - 95	1.05	20	
Arsenic	90.8240	1.0	0.12	125.000	11.7834	63.2	46 - 97	4.29	20	
Barium	210.277	1.0	0.12	125.000	118.929	73.1	24 - 123	0.344	20	
Beryllium	88.9418	1.0	0.03	125.000	ND	71.2	47 - 99	4.06	20	
Cadmium	79.8488	1.0	0.14	125.000	0.332100	63.6	43 - 95	4.49	20	
Chromium	104.567	1.0	0.26	125.000	13.7378	72.7	39 - 109	3.39	20	
Cobalt	91.4342	1.0	0.07	125.000	7.10083	67.5	45 - 101	3.72	20	
Copper	146.862	2.0	0.19	125.000	33.7466	90.5	44 - 118	1.90	20	
Lead	677.415	1.0	0.18	125.000	353.687	259	33 - 121	24.2	20	M1, R
Molybdenum	88.3158	1.0	0.12	125.000	0.469313	70.3	45 - 101	3.59	20	
Nickel	104.310	1.0	0.18	125.000	13.5095	72.6	37 - 104	3.50	20	
Selenium	81.4482	1.0	0.40	125.000	ND	65.2	43 - 96	2.92	20	
Silver	87.1144	1.0	0.12	125.000	ND	69.7	49 - 104	3.31	20	
Thallium	77.7532	1.0	0.38	125.000	ND	62.2	23 - 103	3.87	20	
Vanadium	119.050	1.0	0.06	125.000	27.9086	72.9	42 - 109	5.11	20	
Zinc	773.928	1.0	0.15	125.000	502.226	217	22 - 114	11.4	20	M1



Certificate of Analysis

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 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

TCLP Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B910306 - EPA 3010A_S										
Blank (B910306-BLK1)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	ND	0.050	0.0020							
Lead	ND	0.050	0.0047							
Blank (B910306-BLK2)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	ND	0.050	0.0020							
Lead	ND	0.050	0.0047							
LCS (B910306-BS1)					Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	0.914854	0.050	0.0020	1.00000		91.5	80 - 120			
Lead	0.889440	0.050	0.0047	1.00000		88.9	80 - 120			
Duplicate (B910306-DUP1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	ND	0.25	0.0098		ND			NR	20	
Lead	0.617660	0.25	0.024		0.609468			1.34	20	
Duplicate (B910306-DUP2)					Source: 1903116-12 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	0.028960	0.25	0.0098		ND			NR	20	
Lead	ND	0.25	0.024		0.043632			NR	20	
Matrix Spike (B910306-MS1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	2.31204	0.25	0.0098	2.50000	ND	92.5	63 - 127			
Lead	2.93480	0.25	0.024	2.50000	0.609468	93.0	59 - 123			
Matrix Spike (B910306-MS2)					Source: 1903116-12 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	2.39658	0.25	0.0098	2.50000	ND	95.9	63 - 127			
Lead	2.40283	0.25	0.024	2.50000	0.043632	94.4	59 - 123			
Matrix Spike Dup (B910306-MSD1)					Source: 1903052-10 Prepared: 9/10/2019 Analyzed: 9/11/2019					
Chromium	2.31287	0.25	0.0098	2.50000	ND	92.5	63 - 127	0.0357	20	
Lead	2.91217	0.25	0.024	2.50000	0.609468	92.1	59 - 123	0.774	20	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B910350 - STLC_S Extraction

Blank (B910350-BLK1)

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	ND	1.0	0.039
Copper	ND	1.0	0.076
Lead	ND	1.0	0.094

Blank (B910350-BLK2)

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	ND	1.0	0.039
Copper	ND	1.0	0.076
Lead	ND	1.0	0.094

LCS (B910350-BS1)

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	1.95487		2.00000	97.7	80 - 120
Copper	1.88855		2.00000	94.4	80 - 120
Lead	1.91599		2.00000	95.8	80 - 120

Duplicate (B910350-DUP1)

Source: 1903052-10

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	0.059518	1.0	0.039	ND	NR	20
Copper	0.362422	1.0	0.076	ND	NR	20
Lead	25.4845	1.0	0.094	ND	NR	20

Duplicate (B910350-DUP2)

Source: 1903116-12

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	0.109488	1.0	0.039	0.111436	1.76	20
Copper	0.823030	1.0	0.076	0.815205	0.955	20
Lead	12.5670	1.0	0.094	12.8980	2.60	20

Matrix Spike (B910350-MS1)

Source: 1903052-10

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	2.35330		2.50000	0.013242	93.6	70 - 130	
Copper	2.62638		2.50000	0.006600	105	70 - 130	
Lead	24.0076		2.50000	0.089571	957	70 - 130	M1

Matrix Spike (B910350-MS2)

Source: 1903116-12

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	3.02141		2.50000	0.111436	116	70 - 130	
Copper	3.65400		2.50000	0.815205	114	70 - 130	
Lead	14.5989		2.50000	12.8980	68.0	70 - 130	M1

Matrix Spike Dup (B910350-MSD1)

Source: 1903052-10

Prepared: 9/11/2019 Analyzed: 9/12/2019

Chromium	2.33827		2.50000	0.013242	93.0	70 - 130	0.640	20
Copper	2.59041		2.50000	0.006600	103	70 - 130	1.38	20
Lead	23.8464		2.50000	0.089571	950	70 - 130	0.674	20



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Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0491 - EPA 7471_S

Blank (B9H0491-BLK1)					Prepared: 8/21/2019 Analyzed: 8/22/2019					
Mercury	ND	0.10	0.007							
LCS (B9H0491-BS1)					Prepared: 8/21/2019 Analyzed: 8/22/2019					
Mercury	0.374717	0.10	0.007	0.416667		89.9	80 - 120			
Matrix Spike (B9H0491-MS1)					Source: 1903075-02 Prepared: 8/21/2019 Analyzed: 8/22/2019					
Mercury	1.31386	0.10	0.007	0.416667	0.843830	113	70 - 130			
Matrix Spike Dup (B9H0491-MSD1)					Source: 1903075-02 Prepared: 8/21/2019 Analyzed: 8/22/2019					
Mercury	1.49910	0.10	0.007	0.416667	0.843830	157	70 - 130	13.2	20	M1



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Reported : 09/13/2019

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0491 - EPA 7471_S

Post Spike (B9H0491-PS1)

Source: 1903075-02

Prepared: 8/21/2019 Analyzed: 8/22/2019

Mercury	0.012521		2.00000E-3	0.010126	120	85 - 115			M1
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0437 - GCVOA_S

Blank (B9H0437-BLK1)

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	ND	1.0	0.20							
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Surrogate: 4-Bromofluorobenzene

0.1904

0.200000

95.2

45 - 149

LCS (B9H0437-BS1)

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	4.21100	1.0	0.20	5.00000		84.2	70 - 130			
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Surrogate: 4-Bromofluorobenzene

0.2022

0.200000

101

45 - 149

LCS Dup (B9H0437-BSD1)

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	4.41200	1.0	0.20	5.00000		88.2	70 - 130	4.66	20	
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Surrogate: 4-Bromofluorobenzene

0.2096

0.200000

105

45 - 149

Duplicate (B9H0437-DUP1)

Source: 1903089-01

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	ND	1.0	0.20		ND			NR	20	
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Surrogate: 4-Bromofluorobenzene

0.1696

0.200000

84.8

45 - 149

Matrix Spike (B9H0437-MS1)

Source: 1903070-01

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	4.29600	1.0	0.20	5.00000	ND	85.9	24 - 129			
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Surrogate: 4-Bromofluorobenzene

0.1969

0.200000

98.4

45 - 149

Matrix Spike Dup (B9H0437-MSD1)

Source: 1903070-01

Prepared: 8/20/2019 Analyzed: 8/20/2019

Gasoline Range Organics	4.02900	1.0	0.20	5.00000	ND	80.6	24 - 129	6.41	20	
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Surrogate: 4-Bromofluorobenzene

0.1978

0.200000

98.9

45 - 149



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0512 - GCVOA_S

Blank (B9H0512-BLK1)

Prepared: 8/22/2019 Analyzed: 8/22/2019

Gasoline Range Organics	ND	1.0	0.20							
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Surrogate: 4-Bromofluorobenzene 0.1877 0.200000 93.9 45 - 149

LCS (B9H0512-BS1)

Prepared: 8/22/2019 Analyzed: 8/22/2019

Gasoline Range Organics	5.00100	1.0	0.20	5.00000		100	70 - 130			
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Surrogate: 4-Bromofluorobenzene 0.2047 0.200000 102 45 - 149

LCS Dup (B9H0512-BSD1)

Prepared: 8/22/2019 Analyzed: 8/22/2019

Gasoline Range Organics	4.37100	1.0	0.20	5.00000		87.4	70 - 130	13.4	20	
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Surrogate: 4-Bromofluorobenzene 0.1997 0.200000 99.8 45 - 149

Matrix Spike (B9H0512-MS1)

Source: 1903101-04

Prepared: 8/22/2019 Analyzed: 8/22/2019

Gasoline Range Organics	4.00000	1.0	0.20	5.00000	ND	80.0	24 - 129			
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Surrogate: 4-Bromofluorobenzene 0.2075 0.200000 104 45 - 149

Matrix Spike Dup (B9H0512-MSD1)

Source: 1903101-04

Prepared: 8/22/2019 Analyzed: 8/22/2019

Gasoline Range Organics	3.79700	1.0	0.20	5.00000	ND	75.9	24 - 129	5.21	20	
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Surrogate: 4-Bromofluorobenzene 0.2004 0.200000 100 45 - 149



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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B9H0507 - GCSEMI_DRO_LL_S										
Blank (B9H0507-BLK1)					Prepared: 8/21/2019 Analyzed: 8/22/2019					
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
<i>Surrogate: p-Terphenyl</i>	2.367			2.66667		88.8	34 - 158			
LCS (B9H0507-BS1)					Prepared: 8/21/2019 Analyzed: 8/22/2019					
DRO	24.7460	1.0	1.0	33.3333		74.2	47 - 152			
<i>Surrogate: p-Terphenyl</i>	2.372			2.66667		89.0	34 - 158			
Matrix Spike (B9H0507-MS1)					Source: 1903075-11		Prepared: 8/21/2019 Analyzed: 8/22/2019			
DRO	22.5223	1.0	1.0	33.3333	6.86600	47.0	34 - 130			
<i>Surrogate: p-Terphenyl</i>	1.530			2.66667		57.4	34 - 158			
Matrix Spike Dup (B9H0507-MSD1)					Source: 1903075-11		Prepared: 8/21/2019 Analyzed: 8/22/2019			
DRO	27.8170	1.0	1.0	33.3333	6.86600	62.9	34 - 130	21.0	20	R2
<i>Surrogate: p-Terphenyl</i>	2.023			2.66667		75.8	34 - 158			



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 Reported : 09/13/2019

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S

Blank (B9H0470-BLK1)

Prepared: 8/21/2019 Analyzed: 8/22/2019

4,4'-DDD	ND	2.0	0.07
4,4'-DDD [2C]	ND	2.0	0.07
4,4'-DDE	ND	2.0	0.11
4,4'-DDE [2C]	ND	2.0	0.11
4,4'-DDT	ND	2.0	0.10
4,4'-DDT [2C]	ND	2.0	0.10
Aldrin	ND	1.0	0.12
Aldrin [2C]	ND	1.0	0.12
alpha-BHC	ND	1.0	0.11
alpha-BHC [2C]	ND	1.0	0.11
alpha-Chlordane	ND	1.0	0.12
alpha-Chlordane [2C]	ND	1.0	0.12
beta-BHC	ND	1.0	0.06
beta-BHC [2C]	ND	1.0	0.06
Chlordane	ND	8.5	1.1
Chlordane [2C]	ND	8.5	1.1
delta-BHC	ND	1.0	0.12
delta-BHC [2C]	ND	1.0	0.12
Dieldrin	ND	2.0	0.26
Dieldrin [2C]	ND	2.0	0.26
Endosulfan I	ND	1.0	0.10
Endosulfan I [2C]	ND	1.0	0.10
Endosulfan II	ND	2.0	0.15
Endosulfan II [2C]	ND	2.0	0.15
Endosulfan sulfate	ND	2.0	0.16
Endosulfan Sulfate [2C]	ND	2.0	0.16
Endrin	ND	2.0	0.14
Endrin [2C]	ND	2.0	0.14
Endrin aldehyde	ND	2.0	0.31
Endrin aldehyde [2C]	ND	2.0	0.31
Endrin ketone	ND	2.0	0.13
Endrin ketone [2C]	ND	2.0	0.13
gamma-BHC	ND	1.0	0.10
gamma-BHC [2C]	ND	1.0	0.10
gamma-Chlordane	ND	1.0	0.89
gamma-Chlordane [2C]	ND	1.0	0.89
Heptachlor	ND	1.0	0.12
Heptachlor [2C]	ND	1.0	0.12
Heptachlor epoxide	ND	1.0	0.09
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S (continued)

Blank (B9H0470-BLK1) - Continued

Prepared: 8/21/2019 Analyzed: 8/22/2019

Methoxychlor [2C]	ND	5.0	0.18
Toxaphene	ND	50	4.7
Toxaphene [2C]	ND	50	4.7

<i>Surrogate: Decachlorobiphenyl</i>	<i>10.25</i>		<i>16.6667</i>	<i>61.5</i>	<i>32 - 91</i>
<i>Surrogate: Decachlorobiphenyl [</i>	<i>12.69</i>		<i>16.6667</i>	<i>76.2</i>	<i>32 - 91</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.01</i>		<i>16.6667</i>	<i>72.0</i>	<i>38 - 93</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.83</i>		<i>16.6667</i>	<i>77.0</i>	<i>38 - 93</i>

LCS (B9H0470-BS1)

Prepared: 8/21/2019 Analyzed: 8/22/2019

4,4'-DDD	14.2390	2.0	0.07	16.6667	85.4	66 - 112
4,4'-DDD [2C]	17.1568	2.0	0.07	16.6667	103	66 - 112
4,4'-DDE	13.9328	2.0	0.11	16.6667	83.6	62 - 112
4,4'-DDE [2C]	16.4563	2.0	0.11	16.6667	98.7	62 - 112
4,4'-DDT	12.7358	2.0	0.10	16.6667	76.4	48 - 90
4,4'-DDT [2C]	14.4782	2.0	0.10	16.6667	86.9	48 - 90
Aldrin	13.4822	1.0	0.12	16.6667	80.9	58 - 104
Aldrin [2C]	16.1752	1.0	0.12	16.6667	97.1	58 - 104
alpha-BHC	12.6602	1.0	0.11	16.6667	76.0	57 - 105
alpha-BHC [2C]	14.7533	1.0	0.11	16.6667	88.5	57 - 105
alpha-Chlordane	13.8383	1.0	0.12	16.6667	83.0	62 - 108
alpha-Chlordane [2C]	16.7175	1.0	0.12	16.6667	100	62 - 108
beta-BHC	13.4215	1.0	0.06	16.6667	80.5	59 - 106
beta-BHC [2C]	15.8815	1.0	0.06	16.6667	95.3	59 - 106
delta-BHC	10.5157	1.0	0.12	16.6667	63.1	63 - 115
delta-BHC [2C]	11.8608	1.0	0.12	16.6667	71.2	63 - 115
Dieldrin	13.4158	2.0	0.26	16.6667	80.5	59 - 102
Dieldrin [2C]	15.8238	2.0	0.26	16.6667	94.9	59 - 102
Endosulfan I	12.6525	1.0	0.10	16.6667	75.9	61 - 99
Endosulfan I [2C]	15.3673	1.0	0.10	16.6667	92.2	61 - 99
Endosulfan II	14.0667	2.0	0.15	16.6667	84.4	65 - 105
Endosulfan II [2C]	16.8073	2.0	0.15	16.6667	101	65 - 105
Endosulfan sulfate	12.6205	2.0	0.16	16.6667	75.7	59 - 107
Endosulfan Sulfate [2C]	15.6102	2.0	0.16	16.6667	93.7	59 - 107
Endrin	14.8850	2.0	0.14	16.6667	89.3	65 - 113
Endrin [2C]	17.7080	2.0	0.14	16.6667	106	65 - 113
Endrin aldehyde	13.6950	2.0	0.31	16.6667	82.2	61 - 109
Endrin aldehyde [2C]	16.3258	2.0	0.31	16.6667	98.0	61 - 109
Endrin ketone	12.9930	2.0	0.13	16.6667	78.0	56 - 97
Endrin ketone [2C]	16.6817	2.0	0.13	16.6667	100	56 - 97
gamma-BHC	13.1432	1.0	0.10	16.6667	78.9	57 - 101
gamma-BHC [2C]	15.1202	1.0	0.10	16.6667	90.7	57 - 101

L3



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S (continued)

LCS (B9H0470-BS1) - Continued

Prepared: 8/21/2019 Analyzed: 8/22/2019

gamma-Chlordane	13.3905	1.0	0.89	16.6667		80.3	56 - 125			
gamma-Chlordane [2C]	16.7345	1.0	0.89	16.6667		100	56 - 125			
Heptachlor	13.7137	1.0	0.12	16.6667		82.3	61 - 105			
Heptachlor [2C]	16.1065	1.0	0.12	16.6667		96.6	61 - 105			
Heptachlor epoxide	12.8970	1.0	0.09	16.6667		77.4	59 - 97			
Heptachlor epoxide [2C]	15.6558	1.0	0.09	16.6667		93.9	59 - 97			
Methoxychlor	12.0772	5.0	0.18	16.6667		72.5	68 - 118			
Methoxychlor [2C]	20.0078	5.0	0.18	16.6667		120	68 - 118			L3
<i>Surrogate: Decachlorobiphenyl</i>	<i>12.66</i>			<i>16.6667</i>		<i>76.0</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>14.76</i>			<i>16.6667</i>		<i>88.6</i>	<i>32 - 91</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.01</i>			<i>16.6667</i>		<i>78.1</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.17</i>			<i>16.6667</i>		<i>85.0</i>	<i>38 - 93</i>			

Matrix Spike (B9H0470-MS1)

Source: 1903075-14

Prepared: 8/21/2019 Analyzed: 8/22/2019

4,4'-DDD	13.6037	4.0	0.14	16.6667	ND	81.6	33 - 116			
4,4'-DDD [2C]	16.4383	4.0	0.14	16.6667	ND	98.6	33 - 116			
4,4'-DDE	13.6737	4.0	0.22	16.6667	ND	82.0	29 - 128			
4,4'-DDE [2C]	15.4983	4.0	0.22	16.6667	ND	93.0	29 - 128			
4,4'-DDT	14.6503	4.0	0.20	16.6667	ND	87.9	27 - 109			
4,4'-DDT [2C]	18.0783	4.0	0.20	16.6667	ND	108	27 - 109			
Aldrin	13.6423	2.0	0.25	16.6667	ND	81.9	34 - 110			
Aldrin [2C]	15.6427	2.0	0.25	16.6667	ND	93.9	34 - 110			
alpha-BHC	13.2273	2.0	0.21	16.6667	ND	79.4	39 - 107			
alpha-BHC [2C]	14.7853	2.0	0.21	16.6667	ND	88.7	39 - 107			
alpha-Chlordane	13.5850	2.0	0.24	16.6667	ND	81.5	37 - 111			
alpha-Chlordane [2C]	15.9887	2.0	0.24	16.6667	ND	95.9	37 - 111			
beta-BHC	13.7893	2.0	0.12	16.6667	ND	82.7	33 - 111			
beta-BHC [2C]	15.9047	2.0	0.12	16.6667	ND	95.4	33 - 111			
delta-BHC	9.96900	2.0	0.25	16.6667	ND	59.8	25 - 122			
delta-BHC [2C]	11.3493	2.0	0.25	16.6667	ND	68.1	25 - 122			
Dieldrin	13.6070	4.0	0.53	16.6667	ND	81.6	28 - 114			
Dieldrin [2C]	15.1387	4.0	0.53	16.6667	ND	90.8	28 - 114			
Endosulfan I	12.6637	2.0	0.20	16.6667	ND	76.0	35 - 107			
Endosulfan I [2C]	14.8540	2.0	0.20	16.6667	ND	89.1	35 - 107			
Endosulfan II	13.9540	4.0	0.31	16.6667	ND	83.7	13 - 122			
Endosulfan II [2C]	16.2040	4.0	0.31	16.6667	ND	97.2	13 - 122			
Endosulfan sulfate	12.7447	4.0	0.32	16.6667	ND	76.5	13 - 120			
Endosulfan Sulfate [2C]	15.2170	4.0	0.32	16.6667	ND	91.3	13 - 120			
Endrin	15.0290	4.0	0.27	16.6667	ND	90.2	31 - 121			
Endrin [2C]	17.8573	4.0	0.27	16.6667	ND	107	31 - 121			
Endrin aldehyde	13.2397	4.0	0.62	16.6667	ND	79.4	18 - 129			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9H0470-MS1) - Continued

Source: 1903075-14

Prepared: 8/21/2019 Analyzed: 8/22/2019

Endrin aldehyde [2C]	15.5600	4.0	0.62	16.6667	ND	93.4	18 - 129			
Endrin ketone	13.1830	4.0	0.25	16.6667	ND	79.1	14 - 113			
Endrin ketone [2C]	17.1740	4.0	0.25	16.6667	ND	103	14 - 113			
gamma-BHC	13.7270	2.0	0.21	16.6667	ND	82.4	34 - 104			
gamma-BHC [2C]	15.2340	2.0	0.21	16.6667	ND	91.4	34 - 104			
gamma-Chlordane	13.1133	2.0	1.8	16.6667	ND	78.7	35 - 121			
gamma-Chlordane [2C]	16.3727	2.0	1.8	16.6667	ND	98.2	35 - 121			
Heptachlor	14.5503	2.0	0.23	16.6667	ND	87.3	35 - 110			
Heptachlor [2C]	16.6260	2.0	0.23	16.6667	ND	99.8	35 - 110			
Heptachlor epoxide	13.2460	2.0	0.18	16.6667	ND	79.5	31 - 106			
Heptachlor epoxide [2C]	15.2717	2.0	0.18	16.6667	ND	91.6	31 - 106			
Methoxychlor	14.5403	10	0.36	16.6667	ND	87.2	21 - 128			
Methoxychlor [2C]	29.6520	10	0.36	16.6667	ND	178	21 - 128			M2
<i>Surrogate: Decachlorobiphenyl</i>	<i>20.02</i>			<i>16.6667</i>		<i>120</i>	<i>32 - 91</i>			S10
<i>Surrogate: Decachlorobiphenyl [</i>	<i>22.54</i>			<i>16.6667</i>		<i>135</i>	<i>32 - 91</i>			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.42</i>			<i>16.6667</i>		<i>80.5</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.80</i>			<i>16.6667</i>		<i>82.8</i>	<i>38 - 93</i>			

Matrix Spike Dup (B9H0470-MSD1)

Source: 1903075-14

Prepared: 8/21/2019 Analyzed: 8/22/2019

4,4'-DDD	13.4770	4.0	0.14	16.6667	ND	80.9	33 - 116	0.936	20	
4,4'-DDD [2C]	16.5400	4.0	0.14	16.6667	ND	99.2	33 - 116	0.617	20	
4,4'-DDE	13.6483	4.0	0.22	16.6667	ND	81.9	29 - 128	0.185	20	
4,4'-DDE [2C]	15.5710	4.0	0.22	16.6667	ND	93.4	29 - 128	0.468	20	
4,4'-DDT	14.5837	4.0	0.20	16.6667	ND	87.5	27 - 109	0.456	20	
4,4'-DDT [2C]	18.4943	4.0	0.20	16.6667	ND	111	27 - 109	2.27	20	M2
Aldrin	13.8173	2.0	0.25	16.6667	ND	82.9	34 - 110	1.27	20	
Aldrin [2C]	15.9113	2.0	0.25	16.6667	ND	95.5	34 - 110	1.70	20	
alpha-BHC	13.6397	2.0	0.21	16.6667	ND	81.8	39 - 107	3.07	20	
alpha-BHC [2C]	15.1130	2.0	0.21	16.6667	ND	90.7	39 - 107	2.19	20	
alpha-Chlordane	13.6173	2.0	0.24	16.6667	ND	81.7	37 - 111	0.238	20	
alpha-Chlordane [2C]	16.1410	2.0	0.24	16.6667	ND	96.8	37 - 111	0.948	20	
beta-BHC	13.9773	2.0	0.12	16.6667	ND	83.9	33 - 111	1.35	20	
beta-BHC [2C]	16.1860	2.0	0.12	16.6667	ND	97.1	33 - 111	1.75	20	
delta-BHC	10.2000	2.0	0.25	16.6667	ND	61.2	25 - 122	2.29	20	
delta-BHC [2C]	11.5317	2.0	0.25	16.6667	ND	69.2	25 - 122	1.59	20	
Dieldrin	13.5883	4.0	0.53	16.6667	ND	81.5	28 - 114	0.137	20	
Dieldrin [2C]	15.3067	4.0	0.53	16.6667	ND	91.8	28 - 114	1.10	20	
Endosulfan I	12.6860	2.0	0.20	16.6667	ND	76.1	35 - 107	0.176	20	
Endosulfan I [2C]	14.9247	2.0	0.20	16.6667	ND	89.5	35 - 107	0.475	20	
Endosulfan II	13.6530	4.0	0.31	16.6667	ND	81.9	13 - 122	2.18	20	
Endosulfan II [2C]	16.2087	4.0	0.31	16.6667	ND	97.3	13 - 122	0.0288	20	



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Padre Associates, Inc.
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9H0470-MSD1) - Continued

Source: 1903075-14

Prepared: 8/21/2019 Analyzed: 8/22/2019

Endosulfan sulfate	12.6077	4.0	0.32	16.6667	ND	75.6	13 - 120	1.08	20	
Endosulfan Sulfate [2C]	14.7697	4.0	0.32	16.6667	ND	88.6	13 - 120	2.98	20	
Endrin	14.9620	4.0	0.27	16.6667	ND	89.8	31 - 121	0.447	20	
Endrin [2C]	18.1063	4.0	0.27	16.6667	ND	109	31 - 121	1.38	20	
Endrin aldehyde	12.7103	4.0	0.62	16.6667	ND	76.3	18 - 129	4.08	20	
Endrin aldehyde [2C]	15.6440	4.0	0.62	16.6667	ND	93.9	18 - 129	0.538	20	
Endrin ketone	13.2127	4.0	0.25	16.6667	ND	79.3	14 - 113	0.225	20	
Endrin ketone [2C]	17.5457	4.0	0.25	16.6667	ND	105	14 - 113	2.14	20	
gamma-BHC	13.9680	2.0	0.21	16.6667	ND	83.8	34 - 104	1.74	20	
gamma-BHC [2C]	15.5847	2.0	0.21	16.6667	ND	93.5	34 - 104	2.28	20	
gamma-Chlordane	13.2010	2.0	1.8	16.6667	ND	79.2	35 - 121	0.666	20	
gamma-Chlordane [2C]	16.6187	2.0	1.8	16.6667	ND	99.7	35 - 121	1.49	20	
Heptachlor	14.8757	2.0	0.23	16.6667	ND	89.3	35 - 110	2.21	20	
Heptachlor [2C]	17.1857	2.0	0.23	16.6667	ND	103	35 - 110	3.31	20	
Heptachlor epoxide	13.4377	2.0	0.18	16.6667	ND	80.6	31 - 106	1.44	20	
Heptachlor epoxide [2C]	15.5337	2.0	0.18	16.6667	ND	93.2	31 - 106	1.70	20	
Methoxychlor	14.3357	10	0.36	16.6667	ND	86.0	21 - 128	1.42	20	
Methoxychlor [2C]	29.9000	10	0.36	16.6667	ND	179	21 - 128	0.833	20	M2
<i>Surrogate: Decachlorobiphenyl</i>	<i>19.79</i>			<i>16.6667</i>		<i>119</i>	<i>32 - 91</i>			<i>S10</i>
<i>Surrogate: Decachlorobiphenyl [</i>	<i>23.46</i>			<i>16.6667</i>		<i>141</i>	<i>32 - 91</i>			<i>S10</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.64</i>			<i>16.6667</i>		<i>81.9</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.02</i>			<i>16.6667</i>		<i>84.1</i>	<i>38 - 93</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0470 - GCSEMI_PCB/PEST_S

Blank (B9H0470-BLK2)

Prepared: 8/21/2019 Analyzed: 8/22/2019

Aroclor 1016	ND	16	4.6
Aroclor 1221	ND	16	4.6
Aroclor 1232	ND	16	4.6
Aroclor 1242	ND	16	4.6
Aroclor 1248	ND	16	4.6
Aroclor 1254	ND	16	4.6
Aroclor 1260	ND	16	4.6
Aroclor 1262	ND	16	4.6
Aroclor 1268	ND	16	4.6

<i>Surrogate: Decachlorobiphenyl</i>	13.38		16.6667	80.3	40 - 121
<i>Surrogate: Tetrachloro-m-xylene</i>	16.30		16.6667	97.8	55 - 105

LCS (B9H0470-BS2)

Prepared: 8/21/2019 Analyzed: 8/22/2019

Aroclor 1016	131.840	16	4.6	166.667	79.1	51 - 100
Aroclor 1260	126.021	16	4.6	166.667	75.6	48 - 116
<i>Surrogate: Decachlorobiphenyl</i>	11.51		16.6667	69.0	40 - 121	
<i>Surrogate: Tetrachloro-m-xylene</i>	13.72		16.6667	82.3	55 - 105	

Matrix Spike (B9H0470-MS2)

Source: 1903067-05

Prepared: 8/21/2019 Analyzed: 8/22/2019

Aroclor 1016	152.326	80	23	166.667	ND	91.4	36 - 109
Aroclor 1260	119.058	80	23	166.667	ND	71.4	30 - 123
<i>Surrogate: Decachlorobiphenyl</i>	11.89		16.6667	71.3	40 - 121		
<i>Surrogate: Tetrachloro-m-xylene</i>	17.74		16.6667	106	55 - 105		

S10

Matrix Spike Dup (B9H0470-MSD2)

Source: 1903067-05

Prepared: 8/21/2019 Analyzed: 8/22/2019

Aroclor 1016	166.058	80	23	166.667	ND	99.6	36 - 109	8.63	20
Aroclor 1260	127.767	80	23	166.667	ND	76.7	30 - 123	7.06	20
<i>Surrogate: Decachlorobiphenyl</i>	12.48		16.6667	74.9	40 - 121				
<i>Surrogate: Tetrachloro-m-xylene</i>	19.20		16.6667	115	55 - 105				

S10



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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S

Blank (B9H0403-BLK1)

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.40
1,1,1-Trichloroethane	ND	5.0	0.79
1,1,2,2-Tetrachloroethane	ND	5.0	0.70
1,1,2-Trichloroethane	ND	5.0	0.57
1,1-Dichloroethane	ND	5.0	0.63
1,1-Dichloroethene	ND	5.0	2.9
1,1-Dichloropropene	ND	5.0	0.26
1,2,3-Trichloropropane	ND	5.0	0.72
1,2,3-Trichlorobenzene	ND	5.0	0.57
1,2,4-Trichlorobenzene	ND	5.0	0.61
1,2,4-Trimethylbenzene	ND	5.0	1.0
1,2-Dibromo-3-chloropropane	ND	10	1.2
1,2-Dibromoethane	ND	5.0	0.28
1,2-Dichlorobenzene	ND	5.0	0.45
1,2-Dichloroethane	ND	5.0	0.88
1,2-Dichloropropane	ND	5.0	0.67
1,3,5-Trimethylbenzene	ND	5.0	0.35
1,3-Dichlorobenzene	ND	5.0	0.41
1,3-Dichloropropane	ND	5.0	0.49
1,4-Dichlorobenzene	ND	5.0	0.39
2,2-Dichloropropane	ND	5.0	0.61
2-Chlorotoluene	ND	5.0	0.26
4-Chlorotoluene	ND	5.0	0.20
4-Isopropyltoluene	ND	5.0	0.28
Benzene	ND	5.0	0.37
Bromobenzene	ND	5.0	0.44
Bromochloromethane	ND	5.0	0.99
Bromodichloromethane	ND	5.0	0.58
Bromoform	ND	5.0	0.37
Bromomethane	ND	5.0	4.7
Carbon disulfide	ND	5.0	3.2
Carbon tetrachloride	ND	5.0	0.65
Chlorobenzene	ND	5.0	0.29
Chloroethane	ND	5.0	4.0
Chloroform	ND	5.0	0.75
Chloromethane	ND	5.0	0.98
cis-1,2-Dichloroethene	ND	5.0	0.82
cis-1,3-Dichloropropene	ND	5.0	0.22
Di-isopropyl ether	ND	5.0	0.55
Dibromochloromethane	ND	5.0	0.20
Dibromomethane	ND	5.0	0.56



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

Blank (B9H0403-BLK1) - Continued

Prepared: 8/19/2019 Analyzed: 8/19/2019

Dichlorodifluoromethane	ND	5.0	2.6	
Ethyl Acetate	ND	50	10	
Ethyl Ether	ND	50	20	
Ethyl tert-butyl ether	ND	5.0	0.32	
Ethylbenzene	ND	5.0	0.26	
Freon-113	ND	5.0	3.7	
Hexachlorobutadiene	ND	5.0	0.40	
Isopropylbenzene	ND	5.0	0.32	
m,p-Xylene	ND	10	0.86	
Methylene chloride	ND	5.0	3.4	
MTBE	ND	5.0	1.3	
n-Butylbenzene	ND	5.0	0.42	
n-Propylbenzene	ND	5.0	0.25	
Naphthalene	ND	5.0	0.50	
o-Xylene	ND	5.0	0.46	
sec-Butylbenzene	ND	5.0	0.36	
Styrene	ND	5.0	0.38	
tert-Amyl methyl ether	ND	5.0	0.43	
tert-Butanol	ND	100	7.4	
tert-Butylbenzene	ND	5.0	0.33	
Tetrachloroethene	ND	5.0	0.31	
Toluene	ND	5.0	0.47	
trans-1,2-Dichloroethene	ND	5.0	1.4	
trans-1,3-Dichloropropene	ND	5.0	0.48	
Trichloroethene	ND	5.0	0.64	
Trichlorofluoromethane	ND	5.0	0.79	
Vinyl acetate	ND	50	9.0	
Vinyl chloride	ND	5.0	0.74	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	44.71			50.0000	89.4	60 - 145
<i>Surrogate: 4-Bromofluorobenzene</i>	45.75			50.0000	91.5	68 - 121
<i>Surrogate: Dibromofluoromethane</i>	49.94			50.0000	99.9	65 - 137
<i>Surrogate: Toluene-d8</i>	48.64			50.0000	97.3	82 - 119

LCS (B9H0403-BS1)

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,1,1,2-Tetrachloroethane	44.9400	5.0	0.40	50.0000	89.9	82 - 114
1,1,1-Trichloroethane	48.5500	5.0	0.79	50.0000	97.1	70 - 121
1,1,2,2-Tetrachloroethane	42.9200	5.0	0.70	50.0000	85.8	65 - 116
1,1,2-Trichloroethane	41.0900	5.0	0.57	50.0000	82.2	73 - 114
1,1-Dichloroethane	44.2200	5.0	0.63	50.0000	88.4	69 - 117
1,1-Dichloroethene	40.4700	5.0	2.9	50.0000	80.9	57 - 128
1,1-Dichloropropene	51.2600	5.0	0.26	50.0000	103	76 - 122



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

LCS (B9H0403-BS1) - Continued

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,2,3-Trichloropropane	41.8200	5.0	0.72	50.0000		83.6	65 - 116			
1,2,3-Trichlorobenzene	55.0200	5.0	0.57	50.0000		110	72 - 130			
1,2,4-Trichlorobenzene	57.2200	5.0	0.61	50.0000		114	74 - 141			
1,2,4-Trimethylbenzene	47.3900	5.0	1.0	50.0000		94.8	81 - 126			
1,2-Dibromo-3-chloropropane	47.0700	10	1.2	50.0000		94.1	63 - 126			
1,2-Dibromoethane	41.9300	5.0	0.28	50.0000		83.9	75 - 113			
1,2-Dichlorobenzene	47.2000	5.0	0.45	50.0000		94.4	83 - 114			
1,2-Dichloroethane	39.5200	5.0	0.88	50.0000		79.0	73 - 115			
1,2-Dichloropropane	42.2300	5.0	0.67	50.0000		84.5	75 - 117			
1,3,5-Trimethylbenzene	48.9200	5.0	0.35	50.0000		97.8	80 - 126			
1,3-Dichlorobenzene	46.3400	5.0	0.41	50.0000		92.7	83 - 113			
1,3-Dichloropropane	42.7100	5.0	0.49	50.0000		85.4	79 - 108			
1,4-Dichlorobenzene	45.7100	5.0	0.39	50.0000		91.4	82 - 114			
2,2-Dichloropropane	49.7000	5.0	0.61	50.0000		99.4	66 - 135			
2-Chlorotoluene	45.6300	5.0	0.26	50.0000		91.3	79 - 117			
4-Chlorotoluene	45.1600	5.0	0.20	50.0000		90.3	77 - 118			
4-Isopropyltoluene	52.5400	5.0	0.28	50.0000		105	81 - 129			
Benzene	85.6400	5.0	0.37	100.000		85.6	78 - 112			
Bromobenzene	44.9900	5.0	0.44	50.0000		90.0	79 - 111			
Bromochloromethane	41.7200	5.0	0.99	50.0000		83.4	69 - 116			
Bromodichloromethane	41.3600	5.0	0.58	50.0000		82.7	79 - 111			
Bromoform	44.4700	5.0	0.37	50.0000		88.9	75 - 119			
Bromomethane	60.8100	5.0	4.7	50.0000		122	31 - 168			
Carbon disulfide	39.3400	5.0	3.2	50.0000		78.7	54 - 141			
Carbon tetrachloride	49.3700	5.0	0.65	50.0000		98.7	74 - 125			
Chlorobenzene	44.5600	5.0	0.29	50.0000		89.1	83 - 112			
Chloroethane	52.3000	5.0	4.0	50.0000		105	53 - 144			
Chloroform	42.9100	5.0	0.75	50.0000		85.8	69 - 118			
Chloromethane	45.5200	5.0	0.98	50.0000		91.0	46 - 137			
cis-1,2-Dichloroethene	43.3200	5.0	0.82	50.0000		86.6	68 - 118			
cis-1,3-Dichloropropene	49.4600	5.0	0.22	50.0000		98.9	77 - 121			
Di-isopropyl ether	39.5400	5.0	0.55	50.0000		79.1	60 - 129			
Dibromochloromethane	43.4700	5.0	0.20	50.0000		86.9	80 - 111			
Dibromomethane	40.7700	5.0	0.56	50.0000		81.5	78 - 108			
Dichlorodifluoromethane	49.5100	5.0	2.6	50.0000		99.0	41 - 146			
Ethyl Acetate	409.340	50	10	500.000		81.9	52 - 130			
Ethyl Ether	315.930	50	20	500.000		63.2	54 - 138			
Ethyl tert-butyl ether	43.6000	5.0	0.32	50.0000		87.2	52 - 141			
Ethylbenzene	89.9100	5.0	0.26	100.000		89.9	82 - 121			
Freon-113	43.4600	5.0	3.7	50.0000		86.9	59 - 139			
Hexachlorobutadiene	61.0700	5.0	0.40	50.0000		122	69 - 143			
Isopropylbenzene	53.0500	5.0	0.32	50.0000		106	78 - 124			



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Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

LCS (B9H0403-BS1) - Continued

Prepared: 8/19/2019 Analyzed: 8/19/2019

m,p-Xylene	94.4100	10	0.86	100.000		94.4	85 - 118			
Methylene chloride	45.9900	5.0	3.4	50.0000		92.0	44 - 146			
MTBE	40.8700	5.0	1.3	50.0000		81.7	61 - 122			
n-Butylbenzene	53.0800	5.0	0.42	50.0000		106	78 - 135			
n-Propylbenzene	48.3800	5.0	0.25	50.0000		96.8	78 - 127			
Naphthalene	51.0300	5.0	0.50	50.0000		102	68 - 129			
o-Xylene	93.9400	5.0	0.46	100.000		93.9	86 - 118			
sec-Butylbenzene	50.9300	5.0	0.36	50.0000		102	80 - 127			
Styrene	47.2500	5.0	0.38	50.0000		94.5	85 - 117			
tert-Amyl methyl ether	45.6500	5.0	0.43	50.0000		91.3	48 - 135			
tert-Butanol	ND	100	7.4	250.000		NR	0 - 175			
tert-Butylbenzene	50.9000	5.0	0.33	50.0000		102	81 - 122			
Tetrachloroethene	51.0700	5.0	0.31	50.0000		102	77 - 122			
Toluene	89.5500	5.0	0.47	100.000		89.6	79 - 114			
trans-1,2-Dichloroethene	44.9800	5.0	1.4	50.0000		90.0	66 - 125			
trans-1,3-Dichloropropene	42.1700	5.0	0.48	50.0000		84.3	76 - 120			
Trichloroethene	47.8800	5.0	0.64	50.0000		95.8	79 - 117			
Trichlorofluoromethane	48.4300	5.0	0.79	50.0000		96.9	55 - 133			
Vinyl acetate	405.040	50	9.0	500.000		81.0	52 - 141			
Vinyl chloride	46.9600	5.0	0.74	50.0000		93.9	58 - 132			

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>42.91</i>			<i>50.0000</i>		<i>85.8</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.95</i>			<i>50.0000</i>		<i>97.9</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethan</i>	<i>47.52</i>			<i>50.0000</i>		<i>95.0</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.78</i>			<i>50.0000</i>		<i>97.6</i>	<i>82 - 119</i>			

LCS Dup (B9H0403-BSD1)

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,1,1,2-Tetrachloroethane	44.5200	5.0	0.40	50.0000		89.0	82 - 114	0.939	20	
1,1,1-Trichloroethane	44.8800	5.0	0.79	50.0000		89.8	70 - 121	7.86	20	
1,1,2,2-Tetrachloroethane	40.1700	5.0	0.70	50.0000		80.3	65 - 116	6.62	20	
1,1,2-Trichloroethane	41.7700	5.0	0.57	50.0000		83.5	73 - 114	1.64	20	
1,1-Dichloroethane	41.4000	5.0	0.63	50.0000		82.8	69 - 117	6.59	20	
1,1-Dichloroethene	40.9500	5.0	2.9	50.0000		81.9	57 - 128	1.18	20	
1,1-Dichloropropene	49.0700	5.0	0.26	50.0000		98.1	76 - 122	4.37	20	
1,2,3-Trichloropropane	39.9600	5.0	0.72	50.0000		79.9	65 - 116	4.55	20	
1,2,3-Trichlorobenzene	48.9900	5.0	0.57	50.0000		98.0	72 - 130	11.6	20	
1,2,4-Trichlorobenzene	51.5300	5.0	0.61	50.0000		103	74 - 141	10.5	20	
1,2,4-Trimethylbenzene	44.8000	5.0	1.0	50.0000		89.6	81 - 126	5.62	20	
1,2-Dibromo-3-chloropropane	45.0200	10	1.2	50.0000		90.0	63 - 126	4.45	20	
1,2-Dibromoethane	42.0500	5.0	0.28	50.0000		84.1	75 - 113	0.286	20	
1,2-Dichlorobenzene	44.1500	5.0	0.45	50.0000		88.3	83 - 114	6.68	20	
1,2-Dichloroethane	38.8200	5.0	0.88	50.0000		77.6	73 - 115	1.79	20	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

LCS Dup (B9H0403-BSD1) - Continued

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,2-Dichloropropane	41.7800	5.0	0.67	50.0000		83.6	75 - 117	1.07	20	
1,3,5-Trimethylbenzene	46.4200	5.0	0.35	50.0000		92.8	80 - 126	5.24	20	
1,3-Dichlorobenzene	44.2700	5.0	0.41	50.0000		88.5	83 - 113	4.57	20	
1,3-Dichloropropane	42.2000	5.0	0.49	50.0000		84.4	79 - 108	1.20	20	
1,4-Dichlorobenzene	43.3600	5.0	0.39	50.0000		86.7	82 - 114	5.28	20	
2,2-Dichloropropane	46.5000	5.0	0.61	50.0000		93.0	66 - 135	6.65	20	
2-Chlorotoluene	42.8000	5.0	0.26	50.0000		85.6	79 - 117	6.40	20	
4-Chlorotoluene	42.4300	5.0	0.20	50.0000		84.9	77 - 118	6.23	20	
4-Isopropyltoluene	48.9100	5.0	0.28	50.0000		97.8	81 - 129	7.16	20	
Benzene	82.9300	5.0	0.37	100.000		82.9	78 - 112	3.22	20	
Bromobenzene	43.7400	5.0	0.44	50.0000		87.5	79 - 111	2.82	20	
Bromochloromethane	41.0400	5.0	0.99	50.0000		82.1	69 - 116	1.64	20	
Bromodichloromethane	41.0800	5.0	0.58	50.0000		82.2	79 - 111	0.679	20	
Bromoform	43.3600	5.0	0.37	50.0000		86.7	75 - 119	2.53	20	
Bromomethane	57.8400	5.0	4.7	50.0000		116	31 - 168	5.01	20	
Carbon disulfide	39.4600	5.0	3.2	50.0000		78.9	54 - 141	0.305	20	
Carbon tetrachloride	46.0600	5.0	0.65	50.0000		92.1	74 - 125	6.94	20	
Chlorobenzene	43.8500	5.0	0.29	50.0000		87.7	83 - 112	1.61	20	
Chloroethane	42.4400	5.0	4.0	50.0000		84.9	53 - 144	20.8	20	R
Chloroform	41.3100	5.0	0.75	50.0000		82.6	69 - 118	3.80	20	
Chloromethane	43.5800	5.0	0.98	50.0000		87.2	46 - 137	4.35	20	
cis-1,2-Dichloroethene	41.7600	5.0	0.82	50.0000		83.5	68 - 118	3.67	20	
cis-1,3-Dichloropropene	49.3100	5.0	0.22	50.0000		98.6	77 - 121	0.304	20	
Di-isopropyl ether	39.5800	5.0	0.55	50.0000		79.2	60 - 129	0.101	20	
Dibromochloromethane	43.3200	5.0	0.20	50.0000		86.6	80 - 111	0.346	20	
Dibromomethane	40.6500	5.0	0.56	50.0000		81.3	78 - 108	0.295	20	
Dichlorodifluoromethane	46.6400	5.0	2.6	50.0000		93.3	41 - 146	5.97	20	
Ethyl Acetate	422.970	50	10	500.000		84.6	52 - 130	3.28	20	
Ethyl Ether	339.510	50	20	500.000		67.9	54 - 138	7.20	20	
Ethyl tert-butyl ether	43.9100	5.0	0.32	50.0000		87.8	52 - 141	0.708	20	
Ethylbenzene	86.4100	5.0	0.26	100.000		86.4	82 - 121	3.97	20	
Freon-113	42.8900	5.0	3.7	50.0000		85.8	59 - 139	1.32	20	
Hexachlorobutadiene	55.1600	5.0	0.40	50.0000		110	69 - 143	10.2	20	
Isopropylbenzene	50.3400	5.0	0.32	50.0000		101	78 - 124	5.24	20	
m,p-Xylene	89.0400	10	0.86	100.000		89.0	85 - 118	5.85	20	
Methylene chloride	44.1800	5.0	3.4	50.0000		88.4	44 - 146	4.01	20	
MTBE	40.3000	5.0	1.3	50.0000		80.6	61 - 122	1.40	20	
n-Butylbenzene	49.7300	5.0	0.42	50.0000		99.5	78 - 135	6.52	20	
n-Propylbenzene	45.4000	5.0	0.25	50.0000		90.8	78 - 127	6.36	20	
Naphthalene	46.5500	5.0	0.50	50.0000		93.1	68 - 129	9.18	20	
o-Xylene	89.3600	5.0	0.46	100.000		89.4	86 - 118	5.00	20	
sec-Butylbenzene	47.6400	5.0	0.36	50.0000		95.3	80 - 127	6.68	20	



Certificate of Analysis

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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

LCS Dup (B9H0403-BSD1) - Continued

Prepared: 8/19/2019 Analyzed: 8/19/2019

Styrene	45.5200	5.0	0.38	50.0000		91.0	85 - 117	3.73	20	
tert-Amyl methyl ether	46.8400	5.0	0.43	50.0000		93.7	48 - 135	2.57	20	
tert-Butanol	ND	100	7.4	250.000		NR	0 - 175		20	
tert-Butylbenzene	47.9600	5.0	0.33	50.0000		95.9	81 - 122	5.95	20	
Tetrachloroethene	49.2800	5.0	0.31	50.0000		98.6	77 - 122	3.57	20	
Toluene	85.5000	5.0	0.47	100.000		85.5	79 - 114	4.63	20	
trans-1,2-Dichloroethene	42.1700	5.0	1.4	50.0000		84.3	66 - 125	6.45	20	
trans-1,3-Dichloropropene	42.0700	5.0	0.48	50.0000		84.1	76 - 120	0.237	20	
Trichloroethene	45.6500	5.0	0.64	50.0000		91.3	79 - 117	4.77	20	
Trichlorofluoromethane	44.5400	5.0	0.79	50.0000		89.1	55 - 133	8.37	20	
Vinyl acetate	392.290	50	9.0	500.000		78.5	52 - 141	3.20	20	
Vinyl chloride	44.3300	5.0	0.74	50.0000		88.7	58 - 132	5.76	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>42.69</i>			<i>50.0000</i>		<i>85.4</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.29</i>			<i>50.0000</i>		<i>96.6</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>47.53</i>			<i>50.0000</i>		<i>95.1</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.23</i>			<i>50.0000</i>		<i>96.5</i>	<i>82 - 119</i>			

Matrix Spike (B9H0403-MS1)

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,1,1,2-Tetrachloroethane	36.5400	5.0	0.40	50.0000	ND	73.1	45 - 121			
1,1,1-Trichloroethane	38.7700	5.0	0.79	50.0000	ND	77.5	43 - 127			
1,1,2,2-Tetrachloroethane	37.6200	5.0	0.70	50.0000	ND	75.2	32 - 128			
1,1,2-Trichloroethane	36.7500	5.0	0.57	50.0000	ND	73.5	45 - 121			
1,1-Dichloroethane	36.8500	5.0	0.63	50.0000	ND	73.7	46 - 119			
1,1-Dichloroethene	34.8200	5.0	2.9	50.0000	ND	69.6	40 - 130			
1,1-Dichloropropene	38.3300	5.0	0.26	50.0000	ND	76.7	45 - 130			
1,2,3-Trichloropropane	38.5900	5.0	0.72	50.0000	ND	77.2	42 - 124			
1,2,3-Trichlorobenzene	26.0200	5.0	0.57	50.0000	ND	52.0	4 - 135			
1,2,4-Trichlorobenzene	27.2000	5.0	0.61	50.0000	ND	54.4	8 - 141			
1,2,4-Trimethylbenzene	33.7300	5.0	1.0	50.0000	ND	67.5	30 - 136			
1,2-Dibromo-3-chloropropane	40.1000	10	1.2	50.0000	ND	80.2	38 - 132			
1,2-Dibromoethane	37.3400	5.0	0.28	50.0000	ND	74.7	45 - 121			
1,2-Dichlorobenzene	31.0700	5.0	0.45	50.0000	ND	62.1	30 - 125			
1,2-Dichloroethane	34.5800	5.0	0.88	50.0000	ND	69.2	51 - 115			
1,2-Dichloropropane	34.9100	5.0	0.67	50.0000	ND	69.8	50 - 118			
1,3,5-Trimethylbenzene	34.4600	5.0	0.35	50.0000	ND	68.9	29 - 137			
1,3-Dichlorobenzene	31.2300	5.0	0.41	50.0000	ND	62.5	30 - 124			
1,3-Dichloropropane	37.5300	5.0	0.49	50.0000	ND	75.1	49 - 116			
1,4-Dichlorobenzene	30.7800	5.0	0.39	50.0000	ND	61.6	31 - 124			
2,2-Dichloropropane	39.9500	5.0	0.61	50.0000	ND	79.9	41 - 134			
2-Chlorotoluene	32.4000	5.0	0.26	50.0000	ND	64.8	32 - 127			
4-Chlorotoluene	31.5800	5.0	0.20	50.0000	ND	63.2	34 - 124			



Certificate of Analysis

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 369 Pacific Street
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Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
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 Reported : 09/13/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

Matrix Spike (B9H0403-MS1) - Continued

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

4-Isopropyltoluene	34.0600	5.0	0.28	50.0000	ND	68.1	26 - 141			
Benzene	69.6500	5.0	0.37	100.0000	ND	69.6	48 - 117			
Bromobenzene	34.4900	5.0	0.44	50.0000	ND	69.0	40 - 117			
Bromochloromethane	37.7000	5.0	0.99	50.0000	ND	75.4	48 - 117			
Bromodichloromethane	34.8700	5.0	0.58	50.0000	ND	69.7	49 - 115			
Bromoform	37.2300	5.0	0.37	50.0000	ND	74.5	42 - 127			
Bromomethane	44.8100	5.0	4.7	50.0000	ND	89.6	19 - 157			
Carbon disulfide	33.1700	5.0	3.2	50.0000	ND	66.3	34 - 138			
Carbon tetrachloride	38.1100	5.0	0.65	50.0000	ND	76.2	43 - 130			
Chlorobenzene	34.0200	5.0	0.29	50.0000	ND	68.0	41 - 122			
Chloroethane	31.9200	5.0	4.0	50.0000	ND	63.8	32 - 145			
Chloroform	36.5500	5.0	0.75	50.0000	ND	73.1	46 - 118			
Chloromethane	35.7400	5.0	0.98	50.0000	ND	71.5	34 - 132			
cis-1,2-Dichloroethene	36.6800	5.0	0.82	50.0000	ND	73.4	44 - 119			
cis-1,3-Dichloropropene	40.9700	5.0	0.22	50.0000	ND	81.9	44 - 126			
Di-isopropyl ether	36.4400	5.0	0.55	50.0000	ND	72.9	42 - 126			
Dibromochloromethane	37.5800	5.0	0.20	50.0000	ND	75.2	46 - 119			
Dibromomethane	36.7600	5.0	0.56	50.0000	ND	73.5	52 - 114			
Dichlorodifluoromethane	23.2800	5.0	2.6	50.0000	ND	46.6	22 - 147			
Ethyl Acetate	184.010	50	10	500.0000	ND	36.8	9 - 140			
Ethyl Ether	309.220	50	20	500.0000	ND	61.8	45 - 131			
Ethyl tert-butyl ether	39.1500	5.0	0.32	50.0000	ND	78.3	33 - 138			
Ethylbenzene	67.0500	5.0	0.26	100.0000	ND	67.0	38 - 131			
Freon-113	34.8000	5.0	3.7	50.0000	ND	69.6	38 - 140			
Hexachlorobutadiene	27.1600	5.0	0.40	50.0000	ND	54.3	4 - 141			
Isopropylbenzene	38.5000	5.0	0.32	50.0000	ND	77.0	35 - 133			
m,p-Xylene	68.8600	10	0.86	100.0000	ND	68.9	38 - 130			
Methylene chloride	40.4700	5.0	3.4	50.0000	ND	80.9	26 - 137			
MTBE	38.2200	5.0	1.3	50.0000	ND	76.4	45 - 121			
n-Butylbenzene	31.3800	5.0	0.42	50.0000	ND	62.8	18 - 144			
n-Propylbenzene	33.6400	5.0	0.25	50.0000	ND	67.3	30 - 137			
Naphthalene	30.2800	5.0	0.50	50.0000	ND	60.6	14 - 137			
o-Xylene	69.8400	5.0	0.46	100.0000	ND	69.8	41 - 129			
sec-Butylbenzene	33.3900	5.0	0.36	50.0000	ND	66.8	24 - 140			
Styrene	35.1900	5.0	0.38	50.0000	ND	70.4	41 - 125			
tert-Amyl methyl ether	40.6700	5.0	0.43	50.0000	ND	81.3	31 - 133			
tert-Butanol	30.7300	100	7.4	250.0000	ND	12.3	0 - 201			
tert-Butylbenzene	35.2300	5.0	0.33	50.0000	ND	70.5	30 - 134			
Tetrachloroethene	37.0200	5.0	0.31	50.0000	ND	74.0	37 - 130			
Toluene	69.4000	5.0	0.47	100.0000	ND	69.4	45 - 122			
trans-1,2-Dichloroethene	35.6300	5.0	1.4	50.0000	ND	71.3	46 - 122			
trans-1,3-Dichloropropene	35.3400	5.0	0.48	50.0000	ND	70.7	44 - 124			



Certificate of Analysis

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

Matrix Spike (B9H0403-MS1) - Continued

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

Trichloroethene	37.2100	5.0	0.64	50.0000	ND	74.4	36 - 142			
Trichlorofluoromethane	22.5800	5.0	0.79	50.0000	ND	45.2	37 - 135			
Vinyl acetate	119.920	50	9.0	500.000	ND	24.0	0 - 136			
Vinyl chloride	32.3000	5.0	0.74	50.0000	ND	64.6	42 - 131			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.20</i>			<i>50.0000</i>		<i>92.4</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>49.18</i>			<i>50.0000</i>		<i>98.4</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.50</i>			<i>50.0000</i>		<i>99.0</i>	<i>65 - 137</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.49</i>			<i>50.0000</i>		<i>97.0</i>	<i>82 - 119</i>			

Matrix Spike Dup (B9H0403-MSD1)

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

1,1,1,2-Tetrachloroethane	38.7500	5.0	0.40	50.0000	ND	77.5	45 - 121	5.87	20	
1,1,1-Trichloroethane	41.0100	5.0	0.79	50.0000	ND	82.0	43 - 127	5.62	20	
1,1,2,2-Tetrachloroethane	39.8100	5.0	0.70	50.0000	ND	79.6	32 - 128	5.66	20	
1,1,2-Trichloroethane	39.4400	5.0	0.57	50.0000	ND	78.9	45 - 121	7.06	20	
1,1-Dichloroethane	37.9000	5.0	0.63	50.0000	ND	75.8	46 - 119	2.81	20	
1,1-Dichloroethene	35.2400	5.0	2.9	50.0000	ND	70.5	40 - 130	1.20	20	
1,1-Dichloropropene	41.5900	5.0	0.26	50.0000	ND	83.2	45 - 130	8.16	20	
1,2,3-Trichloropropane	41.1200	5.0	0.72	50.0000	ND	82.2	42 - 124	6.35	20	
1,2,3-Trichlorobenzene	26.8600	5.0	0.57	50.0000	ND	53.7	4 - 135	3.18	20	
1,2,4-Trichlorobenzene	27.9500	5.0	0.61	50.0000	ND	55.9	8 - 141	2.72	20	
1,2,4-Trimethylbenzene	35.1000	5.0	1.0	50.0000	ND	70.2	30 - 136	3.98	20	
1,2-Dibromo-3-chloropropane	44.9700	10	1.2	50.0000	ND	89.9	38 - 132	11.4	20	
1,2-Dibromoethane	40.4500	5.0	0.28	50.0000	ND	80.9	45 - 121	8.00	20	
1,2-Dichlorobenzene	32.3600	5.0	0.45	50.0000	ND	64.7	30 - 125	4.07	20	
1,2-Dichloroethane	38.0100	5.0	0.88	50.0000	ND	76.0	51 - 115	9.45	20	
1,2-Dichloropropane	37.2800	5.0	0.67	50.0000	ND	74.6	50 - 118	6.57	20	
1,3,5-Trimethylbenzene	35.6100	5.0	0.35	50.0000	ND	71.2	29 - 137	3.28	20	
1,3-Dichlorobenzene	31.7800	5.0	0.41	50.0000	ND	63.6	30 - 124	1.75	20	
1,3-Dichloropropane	39.7700	5.0	0.49	50.0000	ND	79.5	49 - 116	5.80	20	
1,4-Dichlorobenzene	31.4200	5.0	0.39	50.0000	ND	62.8	31 - 124	2.06	20	
2,2-Dichloropropane	41.6600	5.0	0.61	50.0000	ND	83.3	41 - 134	4.19	20	
2-Chlorotoluene	33.8200	5.0	0.26	50.0000	ND	67.6	32 - 127	4.29	20	
4-Chlorotoluene	32.8200	5.0	0.20	50.0000	ND	65.6	34 - 124	3.85	20	
4-Isopropyltoluene	35.1500	5.0	0.28	50.0000	ND	70.3	26 - 141	3.15	20	
Benzene	75.3300	5.0	0.37	100.000	ND	75.3	48 - 117	7.84	20	
Bromobenzene	36.3800	5.0	0.44	50.0000	ND	72.8	40 - 117	5.33	20	
Bromochloromethane	38.8200	5.0	0.99	50.0000	ND	77.6	48 - 117	2.93	20	
Bromodichloromethane	37.6600	5.0	0.58	50.0000	ND	75.3	49 - 115	7.69	20	
Bromoform	40.2200	5.0	0.37	50.0000	ND	80.4	42 - 127	7.72	20	
Bromomethane	57.3100	5.0	4.7	50.0000	ND	115	19 - 157	24.5	20	R
Carbon disulfide	34.6900	5.0	3.2	50.0000	ND	69.4	34 - 138	4.48	20	



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

Matrix Spike Dup (B9H0403-MSD1) - Continued

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

Carbon tetrachloride	41.0800	5.0	0.65	50.0000	ND	82.2	43 - 130	7.50	20	
Chlorobenzene	36.1600	5.0	0.29	50.0000	ND	72.3	41 - 122	6.10	20	
Chloroethane	49.4200	5.0	4.0	50.0000	ND	98.8	32 - 145	43.0	20	R
Chloroform	37.9000	5.0	0.75	50.0000	ND	75.8	46 - 118	3.63	20	
Chloromethane	45.0400	5.0	0.98	50.0000	ND	90.1	34 - 132	23.0	20	R
cis-1,2-Dichloroethene	38.0200	5.0	0.82	50.0000	ND	76.0	44 - 119	3.59	20	
cis-1,3-Dichloropropene	43.2100	5.0	0.22	50.0000	ND	86.4	44 - 126	5.32	20	
Di-isopropyl ether	37.5600	5.0	0.55	50.0000	ND	75.1	42 - 126	3.03	20	
Dibromochloromethane	39.2200	5.0	0.20	50.0000	ND	78.4	46 - 119	4.27	20	
Dibromomethane	39.0200	5.0	0.56	50.0000	ND	78.0	52 - 114	5.96	20	
Dichlorodifluoromethane	48.2400	5.0	2.6	50.0000	ND	96.5	22 - 147	69.8	20	R
Ethyl Acetate	110.840	50	10	500.000	ND	22.2	9 - 140	49.6	20	R
Ethyl Ether	300.490	50	20	500.000	ND	60.1	45 - 131	2.86	20	
Ethyl tert-butyl ether	40.1100	5.0	0.32	50.0000	ND	80.2	33 - 138	2.42	20	
Ethylbenzene	70.7300	5.0	0.26	100.000	ND	70.7	38 - 131	5.34	20	
Freon-113	35.4800	5.0	3.7	50.0000	ND	71.0	38 - 140	1.94	20	
Hexachlorobutadiene	26.8300	5.0	0.40	50.0000	ND	53.7	4 - 141	1.22	20	
Isopropylbenzene	40.4900	5.0	0.32	50.0000	ND	81.0	35 - 133	5.04	20	
m,p-Xylene	72.3100	10	0.86	100.000	ND	72.3	38 - 130	4.89	20	
Methylene chloride	41.3600	5.0	3.4	50.0000	ND	82.7	26 - 137	2.18	20	
MTBE	39.4900	5.0	1.3	50.0000	ND	79.0	45 - 121	3.27	20	
n-Butylbenzene	32.3600	5.0	0.42	50.0000	ND	64.7	18 - 144	3.07	20	
n-Propylbenzene	35.1000	5.0	0.25	50.0000	ND	70.2	30 - 137	4.25	20	
Naphthalene	32.9400	5.0	0.50	50.0000	ND	65.9	14 - 137	8.42	20	
o-Xylene	72.7300	5.0	0.46	100.000	ND	72.7	41 - 129	4.05	20	
sec-Butylbenzene	34.6400	5.0	0.36	50.0000	ND	69.3	24 - 140	3.67	20	
Styrene	36.1700	5.0	0.38	50.0000	ND	72.3	41 - 125	2.75	20	
tert-Amyl methyl ether	41.5000	5.0	0.43	50.0000	ND	83.0	31 - 133	2.02	20	
tert-Butanol	ND	100	7.4	250.000	ND	NR	0 - 201	NR	20	
tert-Butylbenzene	36.9700	5.0	0.33	50.0000	ND	73.9	30 - 134	4.82	20	
Tetrachloroethene	39.9700	5.0	0.31	50.0000	ND	79.9	37 - 130	7.66	20	
Toluene	75.1200	5.0	0.47	100.000	ND	75.1	45 - 122	7.92	20	
trans-1,2-Dichloroethene	38.2400	5.0	1.4	50.0000	ND	76.5	46 - 122	7.07	20	
trans-1,3-Dichloropropene	38.2300	5.0	0.48	50.0000	ND	76.5	44 - 124	7.86	20	
Trichloroethene	40.2100	5.0	0.64	50.0000	ND	80.4	36 - 142	7.75	20	
Trichlorofluoromethane	47.4000	5.0	0.79	50.0000	ND	94.8	37 - 135	70.9	20	R
Vinyl acetate	80.8000	50	9.0	500.000	ND	16.2	0 - 136	39.0	20	R
Vinyl chloride	45.9800	5.0	0.74	50.0000	ND	92.0	42 - 131	35.0	20	R
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.86</i>			<i>50.0000</i>		<i>89.7</i>	<i>60 - 145</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.24</i>			<i>50.0000</i>		<i>94.5</i>	<i>68 - 121</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.37</i>			<i>50.0000</i>		<i>96.7</i>	<i>65 - 137</i>			



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0403 - MSVOA_S (continued)

Matrix Spike Dup (B9H0403-MSD1) - Continued

Source: 1903070-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

Surrogate: Toluene-d8

47.97

50.0000

95.9

82 - 119



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Semivolatile Organic Compounds by EPA 8270C - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S

Blank (B9H0510-BLK1)

Prepared: 8/21/2019 Analyzed: 8/21/2019

1,2,4-Trichlorobenzene	ND	330	50						
1,2-Dichlorobenzene	ND	330	26						
1,3-Dichlorobenzene	ND	330	27						
1,4-Dichlorobenzene	ND	330	27						
2,4,5-Trichlorophenol	ND	330	30						
2,4,6-Trichlorophenol	ND	330	35						
2,4-Dichlorophenol	ND	1600	34						
2,4-Dimethylphenol	ND	330	26						
2,4-Dinitrophenol	ND	1600	86						
2,4-Dinitrotoluene	ND	330	33						
2,6-Dinitrotoluene	ND	330	49						
2-Chloronaphthalene	ND	330	28						
2-Chlorophenol	ND	330	31						
2-Methylnaphthalene	ND	330	27						
2-Methylphenol	ND	330	36						
2-Nitroaniline	ND	1600	43						
2-Nitrophenol	ND	330	45						
3,3'-Dichlorobenzidine	ND	660	280						
3-Nitroaniline	ND	1600	49						
4,6-Dinitro-2-methylphenol	ND	1600	41						
4-Bromophenyl-phenylether	ND	330	64						
4-Chloro-3-methylphenol	ND	660	71						
4-Chloroaniline	ND	660	53						
4-Chlorophenyl-phenylether	ND	330	33						
4-Methylphenol	ND	330	57						
4-Nitroaniline	ND	1600	37						
4-Nitrophenol	ND	330	64						
Acenaphthene	ND	330	43						
Acenaphthylene	ND	330	62						
Anthracene	ND	330	51						
Benzidine (M)	ND	1600	1400						
Benzo(a)anthracene	ND	330	44						
Benzo(a)pyrene	ND	330	64						
Benzo(b)fluoranthene	ND	330	65						
Benzo(g,h,i)perylene	ND	330	81						
Benzo(k)fluoranthene	ND	330	33						
Benzoic acid	ND	1600	890						
Benzyl alcohol	ND	660	32						
bis(2-chloroethoxy)methane	ND	330	64						
bis(2-Chloroethyl)ether	ND	330	66						
bis(2-chloroisopropyl)ether	ND	330	76						



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

Blank (B9H0510-BLK1) - Continued

Prepared: 8/21/2019 Analyzed: 8/21/2019

bis(2-ethylhexyl)phthalate	ND	330	63
Butylbenzylphthalate	ND	330	41
Chrysene	ND	330	84
Di-n-butylphthalate	ND	330	51
Di-n-octylphthalate	ND	330	63
Dibenz(a,h)anthracene	ND	330	45
Dibenzofuran	ND	330	58
Diethyl phthalate	ND	330	58
Dimethyl phthalate	ND	330	40
Fluoranthene	ND	330	60
Fluorene	ND	330	110
Hexachlorobenzene	ND	330	55
Hexachlorobutadiene	ND	660	53
Hexachlorocyclopentadiene	ND	660	70
Hexachloroethane	ND	330	94
Indeno(1,2,3-cd)pyrene	ND	330	75
Isophorone	ND	330	85
N-Nitroso-di-n propylamine	ND	330	60
N-Nitrosodiphenylamine	ND	330	32
Naphthalene	ND	330	56
Nitrobenzene	ND	330	57
Pentachlorophenol	ND	1600	50
Phenanthrene	ND	330	67
Phenol	ND	330	34
Pyrene	ND	330	72
Pyridine	ND	1600	270

<i>Surrogate: 1,2-Dichlorobenzene-d</i>	2141			3333.33	64.2	28 - 77
<i>Surrogate: 2,4,6-Tribromophenol</i>	3752			3325.00	113	17 - 157
<i>Surrogate: 2-Chlorophenol-d4</i>	2086			3325.00	62.7	35 - 98
<i>Surrogate: 2-Fluorobiphenyl</i>	2477			3333.33	74.3	35 - 88
<i>Surrogate: 2-Fluorophenol</i>	1914			3325.00	57.6	32 - 88
<i>Surrogate: 4-Terphenyl-d14</i>	4113			3333.33	123	35 - 114
<i>Surrogate: Nitrobenzene-d5</i>	2435			3333.33	73.0	27 - 80
<i>Surrogate: Phenol-d6</i>	2215			3325.00	66.6	35 - 98

S1

LCS (B9H0510-BS1)

Prepared: 8/21/2019 Analyzed: 8/21/2019

1,2,4-Trichlorobenzene	2547.33	330	50	3333.33	76.4	52 - 94
1,2-Dichlorobenzene	2198.33	330	26	3333.33	66.0	47 - 95
1,3-Dichlorobenzene	2164.67	330	27	3333.33	64.9	50 - 88
1,4-Dichlorobenzene	2173.00	330	27	3333.33	65.2	47 - 89
2,4,5-Trichlorophenol	2922.33	330	30	3333.33	87.7	66 - 113



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

LCS (B9H0510-BS1) - Continued

Prepared: 8/21/2019 Analyzed: 8/21/2019

2,4,6-Trichlorophenol	2797.00	330	35	3333.33	83.9	59 - 113
2,4-Dichlorophenol	2574.00	1600	34	3333.33	77.2	61 - 98
2,4-Dimethylphenol	2382.00	330	26	3333.33	71.5	54 - 108
2,4-Dinitrophenol	3258.00	1600	86	3333.33	97.7	58 - 135
2,4-Dinitrotoluene	2907.67	330	33	3333.33	87.2	63 - 115
2,6-Dinitrotoluene	2935.33	330	49	3333.33	88.1	67 - 111
2-Chloronaphthalene	2636.67	330	28	3333.33	79.1	59 - 104
2-Chlorophenol	2078.00	330	31	3333.33	62.3	50 - 97
2-Methylnaphthalene	2590.00	330	27	3333.33	77.7	56 - 112
2-Methylphenol	2393.00	330	36	3333.33	71.8	57 - 102
2-Nitroaniline	3136.33	1600	43	3333.33	94.1	55 - 118
2-Nitrophenol	2403.00	330	45	3333.33	72.1	61 - 100
3,3'-Dichlorobenzidine	3209.67	660	280	3333.33	96.3	47 - 113
3-Nitroaniline	2751.67	1600	49	3333.33	82.6	66 - 117
4,6-Dinitro-2-methylphenol	2875.67	1600	41	3333.33	86.3	62 - 125
4-Bromophenyl-phenylether	3031.67	330	64	3333.33	91.0	45 - 137
4-Chloro-3-methylphenol	2849.00	660	71	3333.33	85.5	64 - 101
4-Chloroaniline	2743.00	660	53	3333.33	82.3	59 - 110
4-Chlorophenyl-phenylether	2994.67	330	33	3333.33	89.8	58 - 109
4-Methylphenol	2442.67	330	57	3333.33	73.3	57 - 106
4-Nitroaniline	2781.67	1600	37	3333.33	83.5	70 - 117
4-Nitrophenol	3106.00	330	64	3333.33	93.2	62 - 114
Acenaphthene	2393.67	330	43	3333.33	71.8	59 - 107
Acenaphthylene	2456.33	330	62	3333.33	73.7	61 - 108
Anthracene	2616.67	330	51	3333.33	78.5	63 - 106
Benzidine (M)	2516.33	1600	1400	3333.33	75.5	25 - 109
Benzo(a)anthracene	2698.33	330	44	3333.33	81.0	60 - 103
Benzo(a)pyrene	2682.33	330	64	3333.33	80.5	63 - 110
Benzo(b)fluoranthene	2683.33	330	65	3333.33	80.5	55 - 115
Benzo(g,h,i)perylene	2818.33	330	81	3333.33	84.6	66 - 107
Benzo(k)fluoranthene	2552.33	330	33	3333.33	76.6	60 - 115
Benzoic acid	1333.00	1600	890	3333.33	40.0	16 - 110
Benzyl alcohol	2479.67	660	32	3333.33	74.4	57 - 107
bis(2-chloroethoxy)methane	2587.00	330	64	3333.33	77.6	51 - 97
bis(2-Chloroethyl)ether	2296.67	330	66	3333.33	68.9	45 - 97
bis(2-chloroisopropyl)ether	2656.67	330	76	3333.33	79.7	2 - 127
bis(2-ethylhexyl)phthalate	3073.00	330	63	3333.33	92.2	62 - 115
Butylbenzylphthalate	2997.67	330	41	3333.33	89.9	60 - 117
Chrysene	2649.33	330	84	3333.33	79.5	52 - 120
Di-n-butylphthalate	2951.67	330	51	3333.33	88.6	65 - 114
Di-n-octylphthalate	2743.33	330	63	3333.33	82.3	52 - 128
Dibenz(a,h)anthracene	2753.00	330	45	3333.33	82.6	62 - 113



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

LCS (B9H0510-BS1) - Continued

Prepared: 8/21/2019 Analyzed: 8/21/2019

Dibenzofuran	2673.00	330	58	3333.33		80.2	66 - 110			
Diethyl phthalate	2938.33	330	58	3333.33		88.2	61 - 113			
Dimethyl phthalate	2980.67	330	40	3333.33		89.4	64 - 105			
Fluoranthene	2749.67	330	60	3333.33		82.5	62 - 106			
Fluorene	2614.00	330	110	3333.33		78.4	58 - 113			
Hexachlorobenzene	3034.00	330	55	3333.33		91.0	65 - 110			
Hexachlorobutadiene	2851.67	660	53	3333.33		85.6	48 - 96			
Hexachlorocyclopentadiene	2771.67	660	70	3333.33		83.2	46 - 110			
Hexachloroethane	2212.33	330	94	3333.33		66.4	48 - 91			
Indeno(1,2,3-cd)pyrene	2792.67	330	75	3333.33		83.8	60 - 112			
Isophorone	2810.33	330	85	3333.33		84.3	52 - 100			
N-Nitroso-di-n propylamine	2790.00	330	60	3333.33		83.7	51 - 99			
N-Nitrosodiphenylamine	2755.67	330	32	3333.33		82.7	65 - 107			
Naphthalene	2286.00	330	56	3333.33		68.6	53 - 95			
Nitrobenzene	2683.67	330	57	3333.33		80.5	51 - 97			
Pentachlorophenol	3000.33	1600	50	3333.33		90.0	58 - 118			
Phenanthrene	2599.00	330	67	3333.33		78.0	63 - 107			
Phenol	2393.33	330	34	3333.33		71.8	49 - 98			
Pyrene	2715.33	330	72	3333.33		81.5	62 - 106			
Pyridine	981.000	1600	270	3333.33		29.4	0 - 54			
<hr/>										
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	<i>2119</i>			<i>3333.33</i>		<i>63.6</i>	<i>28 - 77</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>3245</i>			<i>3325.00</i>		<i>97.6</i>	<i>17 - 157</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>2056</i>			<i>3325.00</i>		<i>61.8</i>	<i>35 - 98</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2410</i>			<i>3333.33</i>		<i>72.3</i>	<i>35 - 88</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>1927</i>			<i>3325.00</i>		<i>58.0</i>	<i>32 - 88</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>3569</i>			<i>3333.33</i>		<i>107</i>	<i>35 - 114</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2461</i>			<i>3333.33</i>		<i>73.8</i>	<i>27 - 80</i>			
<i>Surrogate: Phenol-d6</i>	<i>2129</i>			<i>3325.00</i>		<i>64.0</i>	<i>35 - 98</i>			

Matrix Spike (B9H0510-MS1)

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

1,2,4-Trichlorobenzene	2620.00	3300	500	3333.33	ND	78.6	44 - 98			
1,2-Dichlorobenzene	2336.67	3300	260	3333.33	ND	70.1	38 - 101			
1,3-Dichlorobenzene	2210.00	3300	270	3333.33	ND	66.3	39 - 95			
1,4-Dichlorobenzene	2263.33	3300	270	3333.33	ND	67.9	39 - 94			
2,4,5-Trichlorophenol	2610.00	3300	300	3333.33	ND	78.3	53 - 122			
2,4,6-Trichlorophenol	2243.33	3300	350	3333.33	ND	67.3	44 - 126			
2,4-Dichlorophenol	2503.33	16000	340	3333.33	ND	75.1	51 - 105			
2,4-Dimethylphenol	2430.00	3300	260	3333.33	ND	72.9	50 - 114			
2,4-Dinitrophenol	ND	16000	860	3333.33	ND	NR	5 - 171			M2
2,4-Dinitrotoluene	2650.00	3300	330	3333.33	ND	79.5	39 - 139			
2,6-Dinitrotoluene	2723.33	3300	490	3333.33	ND	81.7	36 - 146			



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

Matrix Spike (B9H0510-MS1) - Continued

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

2-Chloronaphthalene	2683.33	3300	280	3333.33	ND	80.5	50 - 111			
2-Chlorophenol	2180.00	3300	310	3333.33	ND	65.4	40 - 104			
2-Methylnaphthalene	2653.33	3300	270	3333.33	ND	79.6	46 - 115			
2-Methylphenol	2580.00	3300	360	3333.33	ND	77.4	47 - 109			
2-Nitroaniline	3013.33	16000	430	3333.33	ND	90.4	49 - 120			
2-Nitrophenol	2240.00	3300	450	3333.33	ND	67.2	25 - 139			
3,3'-Dichlorobenzidine	2813.33	6600	2800	3333.33	ND	84.4	35 - 122			
3-Nitroaniline	2500.00	16000	490	3333.33	ND	75.0	46 - 131			
4,6-Dinitro-2-methylphenol	570.000	16000	410	3333.33	ND	17.1	32 - 158			M2
4-Bromophenyl-phenylether	2933.33	3300	640	3333.33	ND	88.0	35 - 142			
4-Chloro-3-methylphenol	2646.67	6600	710	3333.33	ND	79.4	52 - 110			
4-Chloroaniline	2783.33	6600	530	3333.33	ND	83.5	48 - 118			
4-Chlorophenyl-phenylether	3023.33	3300	330	3333.33	ND	90.7	49 - 114			
4-Methylphenol	2616.67	3300	570	3333.33	ND	78.5	48 - 112			
4-Nitroaniline	2526.67	16000	370	3333.33	ND	75.8	40 - 153			
4-Nitrophenol	926.667	3300	640	3333.33	ND	27.8	45 - 122			M2
Acenaphthene	2446.67	3300	430	3333.33	ND	73.4	47 - 117			
Acenaphthylene	2513.33	3300	620	3333.33	ND	75.4	47 - 120			
Anthracene	2593.33	3300	510	3333.33	ND	77.8	50 - 115			
Benzidine (M)	ND	16000	14000	3333.33	ND	NR	25 - 131			M2
Benzo(a)anthracene	2603.33	3300	440	3333.33	ND	78.1	51 - 108			
Benzo(a)pyrene	2310.00	3300	640	3333.33	ND	69.3	46 - 120			
Benzo(b)fluoranthene	2533.33	3300	650	3333.33	ND	76.0	41 - 120			
Benzo(g,h,i)perylene	2366.67	3300	810	3333.33	ND	71.0	50 - 117			
Benzo(k)fluoranthene	2206.67	3300	330	3333.33	ND	66.2	33 - 135			
Benzoic acid	ND	16000	8900	3333.33	ND	NR	0 - 104			
Benzyl alcohol	2470.00	6600	320	3333.33	ND	74.1	41 - 116			
bis(2-chloroethoxy)methane	2583.33	3300	640	3333.33	ND	77.5	41 - 101			
bis(2-Chloroethyl)ether	2333.33	3300	660	3333.33	ND	70.0	33 - 106			
bis(2-chloroisopropyl)ether	2936.67	3300	760	3333.33	ND	88.1	0 - 128			
bis(2-ethylhexyl)phthalate	2573.33	3300	630	3333.33	ND	77.2	45 - 126			
Butylbenzylphthalate	2463.33	3300	410	3333.33	ND	73.9	51 - 125			
Chrysene	2543.33	3300	840	3333.33	ND	76.3	38 - 131			
Di-n-butylphthalate	2593.33	3300	510	3333.33	ND	77.8	53 - 124			
Di-n-octylphthalate	4893.33	3300	630	3333.33	ND	147	29 - 150			
Dibenz(a,h)anthracene	2243.33	3300	450	3333.33	ND	67.3	42 - 123			
Dibenzofuran	2833.33	3300	580	3333.33	ND	85.0	55 - 121			
Diethyl phthalate	2870.00	3300	580	3333.33	ND	86.1	44 - 127			
Dimethyl phthalate	3253.33	3300	400	3333.33	613.333	79.2	51 - 114			
Fluoranthene	2586.67	3300	600	3333.33	ND	77.6	49 - 114			
Fluorene	2660.00	3300	1100	3333.33	ND	79.8	45 - 123			
Hexachlorobenzene	3090.00	3300	550	3333.33	ND	92.7	51 - 119			



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

Matrix Spike (B9H0510-MS1) - Continued

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

Hexachlorobutadiene	2913.33	6600	530	3333.33	ND	87.4	42 - 97			
Hexachlorocyclopentadiene	2376.67	6600	700	3333.33	ND	71.3	36 - 115			
Hexachloroethane	2266.67	3300	940	3333.33	ND	68.0	35 - 101			
Indeno(1,2,3-cd)pyrene	2270.00	3300	750	3333.33	ND	68.1	44 - 118			
Isophorone	2656.67	3300	850	3333.33	ND	79.7	42 - 103			
N-Nitroso-di-n propylamine	2780.00	3300	600	3333.33	ND	83.4	42 - 103			
N-Nitrosodiphenylamine	2683.33	3300	320	3333.33	ND	80.5	52 - 116			
Naphthalene	2346.67	3300	560	3333.33	ND	70.4	44 - 101			
Nitrobenzene	2643.33	3300	570	3333.33	ND	79.3	44 - 99			
Pentachlorophenol	526.667	16000	500	3333.33	ND	15.8	39 - 126			M2
Phenanthrene	2576.67	3300	670	3333.33	ND	77.3	51 - 115			
Phenol	2423.33	3300	340	3333.33	ND	72.7	39 - 103			
Pyrene	2620.00	3300	720	3333.33	ND	78.6	48 - 114			
Pyridine	ND	16000	2700	3333.33	ND	NR	20 - 91			M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	<i>1847</i>			<i>3333.33</i>		<i>55.4</i>	<i>28 - 77</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>2513</i>			<i>3325.00</i>		<i>75.6</i>	<i>17 - 157</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>2017</i>			<i>3325.00</i>		<i>60.7</i>	<i>35 - 98</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2150</i>			<i>3333.33</i>		<i>64.5</i>	<i>35 - 88</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>1807</i>			<i>3325.00</i>		<i>54.3</i>	<i>32 - 88</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>3157</i>			<i>3333.33</i>		<i>94.7</i>	<i>35 - 114</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2060</i>			<i>3333.33</i>		<i>61.8</i>	<i>27 - 80</i>			
<i>Surrogate: Phenol-d6</i>	<i>1970</i>			<i>3325.00</i>		<i>59.2</i>	<i>35 - 98</i>			

Matrix Spike Dup (B9H0510-MSD1)

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

1,2,4-Trichlorobenzene	2876.67	3300	500	3333.33	ND	86.3	44 - 98	9.34	20	
1,2-Dichlorobenzene	2546.67	3300	260	3333.33	ND	76.4	38 - 101	8.60	20	
1,3-Dichlorobenzene	2413.33	3300	270	3333.33	ND	72.4	39 - 95	8.80	20	
1,4-Dichlorobenzene	2380.00	3300	270	3333.33	ND	71.4	39 - 94	5.03	20	
2,4,5-Trichlorophenol	2803.33	3300	300	3333.33	ND	84.1	53 - 122	7.14	20	
2,4,6-Trichlorophenol	2480.00	3300	350	3333.33	ND	74.4	44 - 126	10.0	20	
2,4-Dichlorophenol	2716.67	16000	340	3333.33	ND	81.5	51 - 105	8.17	20	
2,4-Dimethylphenol	2643.33	3300	260	3333.33	ND	79.3	50 - 114	8.41	20	
2,4-Dinitrophenol	ND	16000	860	3333.33	ND	NR	5 - 171		20	M2
2,4-Dinitrotoluene	2950.00	3300	330	3333.33	ND	88.5	39 - 139	10.7	20	
2,6-Dinitrotoluene	2963.33	3300	490	3333.33	ND	88.9	36 - 146	8.44	20	
2-Chloronaphthalene	2976.67	3300	280	3333.33	ND	89.3	50 - 111	10.4	20	
2-Chlorophenol	2393.33	3300	310	3333.33	ND	71.8	40 - 104	9.33	20	
2-Methylnaphthalene	2903.33	3300	270	3333.33	ND	87.1	46 - 115	9.00	20	
2-Methylphenol	2836.67	3300	360	3333.33	ND	85.1	47 - 109	9.48	20	
2-Nitroaniline	3320.00	16000	430	3333.33	ND	99.6	49 - 120	9.68	20	
2-Nitrophenol	2436.67	3300	450	3333.33	ND	73.1	25 - 139	8.41	20	



Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2

Report To : Eric Snelling

Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

Matrix Spike Dup (B9H0510-MSD1) - Continued

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

3,3'-Dichlorobenzidine	3036.67	6600	2800	3333.33	ND	91.1	35 - 122	7.64	20	
3-Nitroaniline	2763.33	16000	490	3333.33	ND	82.9	46 - 131	10.0	20	
4,6-Dinitro-2-methylphenol	620.000	16000	410	3333.33	ND	18.6	32 - 158	8.40	20	M2
4-Bromophenyl-phenylether	3116.67	3300	640	3333.33	ND	93.5	35 - 142	6.06	20	
4-Chloro-3-methylphenol	3023.33	6600	710	3333.33	ND	90.7	52 - 110	13.3	20	
4-Chloroaniline	3093.33	6600	530	3333.33	ND	92.8	48 - 118	10.6	20	
4-Chlorophenyl-phenylether	3390.00	3300	330	3333.33	ND	102	49 - 114	11.4	20	
4-Methylphenol	2806.67	3300	570	3333.33	ND	84.2	48 - 112	7.01	20	
4-Nitroaniline	2793.33	16000	370	3333.33	ND	83.8	40 - 153	10.0	20	
4-Nitrophenol	1073.33	3300	640	3333.33	ND	32.2	45 - 122	14.7	20	M2
Acenaphthene	2716.67	3300	430	3333.33	ND	81.5	47 - 117	10.5	20	
Acenaphthylene	2793.33	3300	620	3333.33	ND	83.8	47 - 120	10.6	20	
Anthracene	2786.67	3300	510	3333.33	ND	83.6	50 - 115	7.19	20	
Benzidine (M)	ND	16000	14000	3333.33	ND	NR	25 - 131	NR	20	M2
Benzo(a)anthracene	2836.67	3300	440	3333.33	ND	85.1	51 - 108	8.58	20	
Benzo(a)pyrene	2510.00	3300	640	3333.33	ND	75.3	46 - 120	8.30	20	
Benzo(b)fluoranthene	2710.00	3300	650	3333.33	ND	81.3	41 - 120	6.74	20	
Benzo(g,h,i)perylene	2530.00	3300	810	3333.33	ND	75.9	50 - 117	6.67	20	
Benzo(k)fluoranthene	2340.00	3300	330	3333.33	ND	70.2	33 - 135	5.87	20	
Benzoic acid	ND	16000	8900	3333.33	ND	NR	0 - 104		20	
Benzyl alcohol	2700.00	6600	320	3333.33	ND	81.0	41 - 116	8.90	20	
bis(2-chloroethoxy)methane	2753.33	3300	640	3333.33	ND	82.6	41 - 101	6.37	20	
bis(2-Chloroethyl)ether	2463.33	3300	660	3333.33	ND	73.9	33 - 106	5.42	20	
bis(2-chloroisopropyl)ether	3096.67	3300	760	3333.33	ND	92.9	0 - 128	5.30	20	
bis(2-ethylhexyl)phthalate	2816.67	3300	630	3333.33	ND	84.5	45 - 126	9.03	20	
Butylbenzylphthalate	2786.67	3300	410	3333.33	ND	83.6	51 - 125	12.3	20	
Chrysene	2773.33	3300	840	3333.33	ND	83.2	38 - 131	8.65	20	
Di-n-butylphthalate	2833.33	3300	510	3333.33	ND	85.0	53 - 124	8.85	20	
Di-n-octylphthalate	5080.00	3300	630	3333.33	ND	152	29 - 150	3.74	20	M2
Dibenz(a,h)anthracene	2393.33	3300	450	3333.33	ND	71.8	42 - 123	6.47	20	
Dibenzofuran	3116.67	3300	580	3333.33	ND	93.5	55 - 121	9.52	20	
Diethyl phthalate	3170.00	3300	580	3333.33	ND	95.1	44 - 127	9.93	20	
Dimethyl phthalate	3560.00	3300	400	3333.33	613.333	88.4	51 - 114	9.00	20	
Fluoranthene	2740.00	3300	600	3333.33	ND	82.2	49 - 114	5.76	20	
Fluorene	2936.67	3300	1100	3333.33	ND	88.1	45 - 123	9.89	20	
Hexachlorobenzene	3223.33	3300	550	3333.33	ND	96.7	51 - 119	4.22	20	
Hexachlorobutadiene	3130.00	6600	530	3333.33	ND	93.9	42 - 97	7.17	20	
Hexachlorocyclopentadiene	2520.00	6600	700	3333.33	ND	75.6	36 - 115	5.85	20	
Hexachloroethane	2583.33	3300	940	3333.33	ND	77.5	35 - 101	13.1	20	
Indeno(1,2,3-cd)pyrene	2406.67	3300	750	3333.33	ND	72.2	44 - 118	5.84	20	
Isophorone	2983.33	3300	850	3333.33	ND	89.5	42 - 103	11.6	20	
N-Nitroso-di-n propylamine	3016.67	3300	600	3333.33	ND	90.5	42 - 103	8.17	20	



Certificate of Analysis

Padre Associates, Inc.
 369 Pacific Street
 San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
 Report To : Eric Snelling
 Reported : 09/13/2019

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0510 - MSSEMI_S (continued)

Matrix Spike Dup (B9H0510-MSD1) - Continued

Source: 1903108-03

Prepared: 8/21/2019 Analyzed: 8/21/2019

N-Nitrosodiphenylamine	2956.67	3300	320	3333.33	ND	88.7	52 - 116	9.69	20	
Naphthalene	2573.33	3300	560	3333.33	ND	77.2	44 - 101	9.21	20	
Nitrobenzene	2963.33	3300	570	3333.33	ND	88.9	44 - 99	11.4	20	
Pentachlorophenol	580.000	16000	500	3333.33	ND	17.4	39 - 126	9.64	20	M2
Phenanthrene	2730.00	3300	670	3333.33	ND	81.9	51 - 115	5.78	20	
Phenol	2600.00	3300	340	3333.33	ND	78.0	39 - 103	7.03	20	
Pyrene	2793.33	3300	720	3333.33	ND	83.8	48 - 114	6.40	20	
Pyridine	ND	16000	2700	3333.33	ND	NR	20 - 91	NR	20	M2
<i>Surrogate: 1,2-Dichlorobenzene-d</i>	2033			3333.33		61.0	28 - 77			
<i>Surrogate: 2,4,6-Tribromophenol</i>	2883			3325.00		86.7	17 - 157			
<i>Surrogate: 2-Chlorophenol-d4</i>	2163			3325.00		65.1	35 - 98			
<i>Surrogate: 2-Fluorobiphenyl</i>	2353			3333.33		70.6	35 - 88			
<i>Surrogate: 2-Fluorophenol</i>	1887			3325.00		56.7	32 - 88			
<i>Surrogate: 4-Terphenyl-d14</i>	3423			3333.33		103	35 - 114			
<i>Surrogate: Nitrobenzene-d5</i>	2277			3333.33		68.3	27 - 80			
<i>Surrogate: Phenol-d6</i>	2187			3325.00		65.8	35 - 98			



Certificate of Analysis

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369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

pH by EPA 9045C - Quality Control

Analyte	Result (pH Units)	PQL (pH Units)	MDL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9H0427 - Prep_WC1_S

Duplicate (B9H0427-DUP1)

Source: 1903036-01

Prepared: 8/19/2019 Analyzed: 8/19/2019

pH	7.83000	0.10	0.10		7.78000			0.641	20	
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Certificate of Analysis

Padre Associates, Inc.
369 Pacific Street
San Luis Obispo , CA 93401

Project Number : Hydrogen Gas Pipeline - Phase II, 1802-2
Report To : Eric Snelling
Reported : 09/13/2019

Notes and Definitions

S7	Surrogate recovery was outside of laboratory acceptance limit. Chromatogram shows high concentration of heavy hydrocarbons.
S4	Surrogate was diluted out.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
S1	Surrogate recovery was above laboratory acceptance limit. No associated target analyte was detected in the sample.
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
D6	Sample required dilution due to high concentration of target analyte.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

August 30, 2019
Workorder **19081044**

Rachelle Arada
Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755

Project: HA-12-5'

Dear Rachelle Arada:

It is the policy of Silver State Analytical Laboratory - Reno to strictly adhere to a comprehensive Quality Assurance Plan that ensures the data presented in this report are both accurate and precise. Silver State Analytical Laboratory - Reno maintains accreditation in the State of Nevada (NV-00015) and the State of California (ELAP 2990).

The data presented in this report was obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with an appropriate explanation in the Analysis Report section of the Laboratory Report.

Sincerely,

Carly Wood
Laboratory Director
1135 Financial Blvd
Reno, NV 89502



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

Analytical Report

Workorder#: 19081044
Date Reported: 8/30/2019

Client: Advanced Technology Laboratories
Project Name: HA-12-5'
PO #: SC14001-Standard TAT

Sampled By: Marco Ojeda

Laboratory Accreditation Number: NV015/CA2990

Laboratory ID	Client Sample ID	Date/Time Sampled	Date Received
19081044-01	HA-12-5'	08/16/2019 10:52	8/20/2019

Parameter	Method	Result	Units	PQL	Analyst	Date/Time Analyzed	Data Flag
Ignitability	EPA 1030	< 2.2	mm/sec	2.2	MA	08/23/2019 3:18	

Original


 ADVANCED TECHNOLOGY
 LABORATORIES

19081044

SUBCONTRACT ORDER

Work Order: 1903075

SENDING LABORATORY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Rachelle Arada
 (Rachelle.Arada@atlglobal.com)


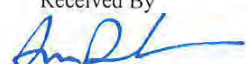
RECEIVING LABORATORY:

Silver State Analytical Laboratories
 1135 West Sunset Blvd., Suite A
 Rocklin, CA 95756
 Phone : (916) 543-4445
 Fax:
 PO#: SC14001- STANDARD TAT

Sampler: Marco Ojeda

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903075-05 / HA-12-5' 1030_SUB [Ignitability] 1-Glass Jar - 4 oz	09/02/19 17:00	08/30/19 10:52	08/16/19 10:52	

 Released By	08/19/19 Date	FED EX 7760 1031 3194 Received By	08/19/19 Date
Released By	Date	 Received By	8/20/19 @ 10:20 Date



Silver State Labs-Reno
1135 Financial Blvd
Reno, NV 89502
(775) 857-2400 FAX: (888) 398-7002
www.ssalabs.com

Definitions & Qualifiers

WO#: 19081044

Date: 8/30/2019

Definitions:

LCS: Laboratory Control Sample; prepared by adding a known mass of target analytes to a specified amount of de-ionized water and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: LCS Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

MBLK: Method Blank; a sample of similar matrix that is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.

MS: Matrix Spike; prepared by adding a known mass of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: Matrix Spike Duplicate; used to calculate both Accuracy (%REC) and Precision (%RPD)

RPD: Relative Percent Difference; comparison between sample and duplicate and/or MS and MSD.

PQL: Practical Quantitation Limit; the limit to which data is quantitated for reporting.

MDL: Method Detection Limit; the limit to which the instrument can reliably detect.

MCL: Maximum Contaminant Level; value set according to EPA guidelines.

Qualifiers:

* - Analyte exceeds Safe Drinking Water Act MCL, does not meet drinking water standards.

C - Analyte value below Safe Drinking Water Act MCL, does not meet drinking water standards.

B - Analyte found above the PQL in associated method blank.

G - Calibration blank analyte detected above PQL.

H - Sample analyzed beyond holding time for this parameter.

J - Estimated Value; Analyte found between MDL and PQL limits.

L - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.

R - RPD between sample and duplicate sample outside the RPD acceptance limits.

S - Batch MS and/or MSD were outside acceptance limits, batch LCS was acceptable.

W - Sample temperature when received was out of limit as specified by method.

Original



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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Number of Pages 19
Date Received 08/19/2019
Date Reported 09/09/2019

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
100104	08/19/2019	ATL

Project ID: 1903075
Project Name: PO# SC14000

Enclosed please find results of analyses of 9 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Joe Sevrean
Laboratory Director

SUBCONTRACT ORDER

Work Order: 1903075

100104

SENDING LABORATORY:

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Rachele Arada
 (Rachele.Arada@atlglobal.com)



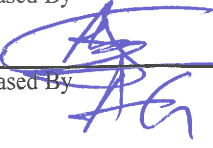

RECEIVING LABORATORY:

AETL
 2834 North Naomi Street
 Burbank, CA 91504
 Phone : (818) 845-8200
 Fax: (818) 845-8840
 PO#: SC14000- STANDARD TAT

Sampler: Marco Ojeda

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903075-02 / HA-11-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 07:43	08/16/19 07:43	100104.01
ATL Lab#: 1903075-05 / HA-12-5' 8151_SUB [Chlorinated Herbicides] Reactive_Cyanide_SUB [Cyanide, Reactive] Reactive_Sulfide_SUB [Sulfide, Reactive] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 10:52	08/16/19 10:52	100104.02
ATL Lab#: 1903075-06 / HA-13-0.5' 8151_SUB [Chlorinated Herbicides]	08/26/19 17:00	08/30/19 10:58	08/16/19 10:58	100104.03
ATL Lab#: 1903075-08 / HA-14-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 11:45	08/16/19 11:45	100104.04

Released By 	Date 8/19/19	Received By 	Date 8/19/19
Released By 	Date 8/19/19 0950	Received By 	Date 08/19/19 0950


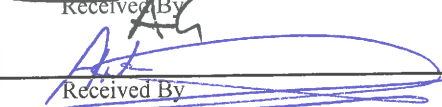

ADVANCED TECHNOLOGY
 LABORATORIES

SUBCONTRACT ORDER

Work Order: 1903075

100104

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1903075-11 / HA-15-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 12:52	08/16/19 12:52	100104-05
ATL Lab#: 1903075-14 / HA-16-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 13:13	08/16/19 13:13	100104-06
ATL Lab#: 1903075-17 / HA-17-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 13:31	08/16/19 13:31	100104-07
ATL Lab#: 1903075-21 / HA-18-5' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 14:10	08/16/19 14:10	100104-08
ATL Lab#: 1903075-23 / HA-19-2' 8151_SUB [Chlorinated Herbicides] 1-Glass Jar - 4 oz	08/26/19 17:00	08/30/19 15:30	08/16/19 15:30	100104-09

Released By <i>M</i>	Date <i>8/19/19</i>	 Received By	Date <i>8/19/19</i>
Released By <i>AG</i>	Date <i>8/19/19</i> <i>0950</i>	 Received By	Date <i>8/19/19</i> <i>0950</i>



AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 NORTH NAOMI ST. BURBANK, CALIFORNIA 91504 DHS # 1541 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: <u>ATL</u>			
Project Name:			
AETL Job Number: <u>100104</u>			
Date Received: <u>08/19/19</u>		Received by: <u>Antin</u>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<u> / </u>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <u>33.6</u> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input type="checkbox"/> Ice, <input checked="" type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<u>PP</u>		
2. Are the Sample labels legible?	<u>PP</u>		
3. Do samples match the COC?	<u>PP</u>		
4. Are the required analyses clear?	<u>PP</u>		
5. Is there enough samples for required analysis?	<u>PP</u>		
6. Are samples sealed with evidence tape?		<u> </u>	
7. Are sample containers in good condition?	<u>PP</u>		
8. Are samples preserved?	<u>PP</u>		
9. Are samples preserved properly for the intended analysis?	<u>PP</u>		
10. Are the VOAs free of headspace?	<u>MD</u>		
11. Are the jars free of headspace?	<u> </u>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 90 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 90 DAYS.

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Project ID: 1903075
Date Received 08/19/2019
Date Reported 09/09/2019

Telephone: (562)989-4045
Attention: Rachele Arada

Job Number	Order Date	Client
100104	08/19/2019	ATL

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 9 samples with the following specification on 08/19/2019.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
100104.01	1903075-02	08/16/2019	Soil	1
100104.03	1903075-06	08/16/2019	Soil	1
100104.04	1903075-08	08/16/2019	Soil	1
100104.05	1903075-11	08/16/2019	Soil	1
100104.06	1903075-14	08/16/2019	Soil	1
100104.07	1903075-17	08/16/2019	Soil	1
100104.08	1903075-21	08/16/2019	Soil	1
100104.09	1903075-23	08/16/2019	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8151A)	08/26/2019	2	Normal	ug/Kg
100104.02	1903075-05	08/16/2019	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8151A)	08/26/2019	2	Normal	ug/Kg
(9010B-9030B)	08/26/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 2

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acifluorfen	20	20	ND			
Bentazon	10	10	ND			
Chloramben	10	10	ND			
2,4-D	10	10	ND			
Dalapon	20	20	ND			
2,4-DB	10	10	ND			
DCPA diacid	20	20	ND			
Dicamba	10	10	ND			
3,5-Dichlorobenzoic acid	10	10	ND			
Dichloroprop	10	10	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND			
MCPA	2000	2000	ND			
MCPP	2000	2000	ND			
4-Nitrophenol	10	10	ND			
Pentachlorophenol (PCP)	10	10	ND			
Picloram	10	10	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND			
2,4,5-TP	10	10	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
DCAA	40-150		75.8			



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ANALYTICAL RESULTS

Ordered By

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Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 3

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.	100104.01		
Client Sample I.D.	1903075-02		
Date Sampled	08/16/2019		
Date Prepared	08/19/2019		
Preparation Method	3550B		
Date Analyzed	08/21/2019		
Matrix	Soil		
Units	ug/Kg		
Dilution Factor	10		
Analytes	MDL	PQL	Results
Acifluorfen	200	200	ND
Bentazon	100	100	ND
Chloramben	100	100	ND
2,4-D	100	100	ND
Dalapon	200	200	ND
2,4-DB	100	100	ND
DCPA diacid	200	200	ND
Dicamba	100	100	ND
3,5-Dichlorobenzoic acid	100	100	ND
Dichloroprop	100	100	ND
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	200	200	ND
MCPA	20000	20000	ND
MCPP	20000	20000	ND
4-Nitrophenol	100	100	ND
Pentachlorophenol (PCP)	100	100	ND
Picloram	100	100	ND
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	100	100	ND
2,4,5-TP	100	100	ND

Comment(s):

100104.01: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

Page: **4**

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100104.01				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		104				



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ANALYTICAL RESULTS

Ordered By

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 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 5

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.		100104.02			
Client Sample I.D.		1903075-05			
Date Sampled		08/16/2019			
Date Prepared		08/19/2019			
Preparation Method		3550B			
Date Analyzed		08/21/2019			
Matrix		Soil			
Units		ug/Kg			
Dilution Factor		40			
Analytes	MDL	PQL	Results		
Acifluorfen	800	800	ND		
Bentazon	400	400	ND		
Chloramben	400	400	ND		
2,4-D	400	400	ND		
Dalapon	800	800	ND		
2,4-DB	400	400	ND		
DCPA diacid	800	800	ND		
Dicamba	400	400	ND		
3,5-Dichlorobenzoic acid	400	400	ND		
Dichloroprop	400	400	ND		
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	800	800	ND		
MCPA	80000	80000	ND		
MCPP	80000	80000	ND		
4-Nitrophenol	400	400	ND		
Pentachlorophenol (PCP)	400	400	ND		
Picloram	400	400	ND		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	400	400	ND		
2,4,5-TP	400	400	ND		

Comment(s):

100104.02: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

Page: 6

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.		100104.02				
Surrogates	%Rec.Limit	% Rec.				
DCAA	40-150	130				



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 7

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100104.03			
Client Sample I.D.			1903075-06			
Date Sampled			08/16/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Acifluorfen	40	40	ND			
Bentazon	20	20	ND			
Chloramben	20	20	ND			
2,4-D	20	20	ND			
Dalapon	40	40	ND			
2,4-DB	20	20	ND			
DCPA diacid	40	40	ND			
Dicamba	20	20	ND			
3,5-Dichlorobenzoic acid	20	20	ND			
Dichloroprop	20	20	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	40	40	ND			
MCPA	4000	4000	ND			
MCPP	4000	4000	ND			
4-Nitrophenol	20	20	ND			
Pentachlorophenol (PCP)	20	20	ND			
Picloram	20	20	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	20	20	ND			
2,4,5-TP	20	20	ND			

Comment(s):

100104.03: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

Page: **8**

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100104.03				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		41.8				



American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 9

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.		100104.04				
Client Sample I.D.		1903075-08				
Date Sampled		08/16/2019				
Date Prepared		08/19/2019				
Preparation Method		3550B				
Date Analyzed		08/21/2019				
Matrix		Soil				
Units		ug/Kg				
Dilution Factor		40				
Analytes	MDL	PQL	Results			
Acifluorfen	800	800	ND			
Bentazon	400	400	ND			
Chloramben	400	400	ND			
2,4-D	400	400	ND			
Dalapon	800	800	ND			
2,4-DB	400	400	ND			
DCPA diacid	800	800	ND			
Dicamba	400	400	ND			
3,5-Dichlorobenzoic acid	400	400	ND			
Dichloroprop	400	400	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	800	800	ND			
MCPA	80000	80000	ND			
MCPP	80000	80000	ND			
4-Nitrophenol	400	400	ND			
Pentachlorophenol (PCP)	400	400	ND			
Picloram	400	400	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	400	400	ND			
2,4,5-TP	400	400	ND			

Comment(s):

100104.04: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

Page: 10

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100104.04				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		110				



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ANALYTICAL RESULTS

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 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: **11**

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100104.05	100104.06		
Client Sample I.D.			1903075-11	1903075-14		
Date Sampled			08/16/2019	08/16/2019		
Date Prepared			08/19/2019	08/19/2019		
Preparation Method			3550B	3550B		
Date Analyzed			08/21/2019	08/21/2019		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acifluorfen	20	20	ND	ND		
Bentazon	10	10	ND	ND		
Chloramben	10	10	ND	ND		
2,4-D	10	10	ND	ND		
Dalapon	20	20	ND	ND		
2,4-DB	10	10	ND	ND		
DCPA diacid	20	20	ND	ND		
Dicamba	10	10	ND	ND		
3,5-Dichlorobenzoic acid	10	10	ND	ND		
Dichloroprop	10	10	ND	ND		
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND	ND		
MCPA	2000	2000	ND	ND		
MCPP	2000	2000	ND	ND		
4-Nitrophenol	10	10	ND	ND		
Pentachlorophenol (PCP)	10	10	ND	ND		
Picloram	10	10	ND	ND		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND	ND		
2,4,5-TP	10	10	ND	ND		
Our Lab I.D.			100104.05	100104.06		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
DCAA	40-150		51.8	85.8		



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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: **12**

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.	100104.07		
Client Sample I.D.	1903075-17		
Date Sampled	08/16/2019		
Date Prepared	08/19/2019		
Preparation Method	3550B		
Date Analyzed	08/21/2019		
Matrix	Soil		
Units	ug/Kg		
Dilution Factor	4		
Analytes	MDL	PQL	Results
Acifluorfen	80	80	ND
Bentazon	40	40	ND
Chloramben	40	40	ND
2,4-D	40	40	ND
Dalapon	80	80	ND
2,4-DB	40	40	ND
DCPA diacid	80	80	ND
Dicamba	40	40	ND
3,5-Dichlorobenzoic acid	40	40	ND
Dichloroprop	40	40	ND
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	80	80	ND
MCPA	8000	8000	ND
MCPP	8000	8000	ND
4-Nitrophenol	40	40	ND
Pentachlorophenol (PCP)	40	40	ND
Picloram	40	40	ND
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	40	40	ND
2,4,5-TP	40	40	ND

Comment(s):

100104.07: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

Page: **13**

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100104.07				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		108				



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ANALYTICAL RESULTS

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 Signal Hill, CA 90755-5225

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 14

Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100104.08			
Client Sample I.D.			1903075-21			
Date Sampled			08/16/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acifluorfen	20	20	ND			
Bentazon	10	10	ND			
Chloramben	10	10	ND			
2,4-D	10	10	ND			
Dalapon	20	20	ND			
2,4-DB	10	10	ND			
DCPA diacid	20	20	ND			
Dicamba	10	10	ND			
3,5-Dichlorobenzoic acid	10	10	ND			
Dichloroprop	10	10	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	20	20	ND			
MCPA	2000	2000	ND			
MCPP	2000	2000	ND			
4-Nitrophenol	10	10	ND			
Pentachlorophenol (PCP)	10	10	ND			
Picloram	10	10	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	10	10	ND			
2,4,5-TP	10	10	ND			
Our Lab I.D.			100104.08			
Surrogates	%Rec.Limit		% Rec.			
DCAA	40-150		42.4			



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ANALYTICAL RESULTS

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Attn: Rachelle Arada

Page: **15**

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1

Our Lab I.D.			100104.09			
Client Sample I.D.			1903075-23			
Date Sampled			08/16/2019			
Date Prepared			08/19/2019			
Preparation Method			3550B			
Date Analyzed			08/21/2019			
Matrix			Soil			
Units			ug/Kg			
Dilution Factor			20			
Analytes	MDL	PQL	Results			
Acifluorfen	400	400	ND			
Bentazon	200	200	ND			
Chloramben	200	200	ND			
2,4-D	200	200	ND			
Dalapon	400	400	ND			
2,4-DB	200	200	ND			
DCPA diacid	400	400	ND			
Dicamba	200	200	ND			
3,5-Dichlorobenzoic acid	200	200	ND			
Dichloroprop	200	200	ND			
Dinoseb (DNBP, 2-sec-Butyl-4,6-dinitrophenol)	400	400	ND			
MCPA	40000	40000	ND			
MCPP	40000	40000	ND			
4-Nitrophenol	200	200	ND			
Pentachlorophenol (PCP)	200	200	ND			
Picloram	200	200	ND			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	200	200	ND			
2,4,5-TP	200	200	ND			

Comment(s):

100104.09: Analyzed under dilution due to matrix interference



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ANALYTICAL RESULTS

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Project ID: 1903075
 Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

Our Lab I.D.			100104.09				
Surrogates	%Rec.Limit		% Rec.				
DCAA	40-150		95.2				



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Page: **17**

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (9010B-9030B), Reactive cyanide and sulfide (Reactivity)

QC Batch No: CSR090919-1

Our Lab I.D.		Method Blank	100104.02			
Client Sample I.D.			1903075-05			
Date Sampled			08/16/2019			
Date Prepared		09/09/2019	09/09/2019			
Preparation Method		9010-9030	9010-9030			
Date Analyzed		09/09/2019	09/09/2019			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Cyanide (Reactive)	0.25	0.50	ND	ND		
Sulfide (Reactive)	0.25	0.50	ND	ND		



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QUALITY CONTROL RESULTS

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Attn: Rachelle Arada

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Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (8151A), Chlorinated Herbicides by GC/ECD

QC Batch No: 081919MB1; Dup or Spiked Sample: 100021.02; LCS: Clean Sand; QC Prepared: 08/19/2019; QC Analyzed: 08/21/2019;
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
2,4-D	0.00	25.0	10.6	42.4	25.0	10.9	43.6	2.8	40-140	<40
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	0.00	25.0	14.4	57.6	25.0	11.0	44.0	26.8	40-140	<40
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.00	25.0	12.2	48.8	25.0	10.9	43.6	11.3	40-140	<40
Surrogates										
DCAA	0.00	50.0	44.5	89.0	50.0	28.9	57.8	42.5	40-140	<40

QC Batch No: 081919MB1; Dup or Spiked Sample: 100021.02; LCS: Clean Sand; QC Prepared: 08/19/2019; QC Analyzed: 08/21/2019;
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
2,4-D	25.0	15.0	60.0	25.0	14.7	58.8	2.0	50-140	<40
Dinoseb (DNBP, 2-sec-Butyl-4, 6-dinitrophenol)	25.0	15.6	62.4	25.0	16.1	64.4	3.2	50-140	<40
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	25.0	14.6	58.4	25.0	15.3	61.2	4.7	50-140	<40
LCS									
Dalapon	25.0	31.0	124	25.0	31.3	125	<1	50-140	<40
2,4-DB	25.0	12.8	51.2	25.0	12.6	50.4	1.6	50-140	<40
Dicamba	25.0	14.3	57.2	25.0	14.5	58.0	1.4	50-140	<40
Dichloroprop	25.0	19.8	79.2	25.0	24.6	98.4	21.6	50-140	<40
MCPA	2,500	1,870	74.6	2,500	1,840	73.5	1.5	50-140	<40
MCPP	2,500	2,190	87.6	2,500	2,150	86.0	1.8	50-140	<40
2,4,5-TP	25.0	15.9	63.6	25.0	16.8	67.2	5.5	50-140	<40
Surrogates									
DCAA	50.0	25.3	50.6	50.0	36.1	72.2	35.2	50-140	<40



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QUALITY CONTROL RESULTS

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Attn: Rachelle Arada

Page: **19**

Project ID: 1903075

Project Name: PO# SC14000

AETL Job Number	Submitted	Client
100104	08/19/2019	ATL

Method: (9010B-9030B), Reactive cyanide and sulfide (Reactivity)

QC Batch No: CSR090919-1; Dup or Spiked Sample: 100021.07; LCS: Clean Sand; LCS Prepared: 09/09/2019;
 LCS Analyzed: 09/09/2019; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Cyanide	0.200	0.166	83.0	0.200	0.160	80.0	3.7	60-120	<15	
Sulfides	0.200	0.160	80.0	0.200	0.162	81.0	1.2	60-120	<15	



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

For Laboratory Use Only ATLCOC Ver: 20190413

Method of Transport	Sample Conditions Upon Receipt
<input checked="" type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> GSO <input type="checkbox"/> Other:	Condition: <input type="checkbox"/> Y <input type="checkbox"/> N 1. CHILLED <input type="checkbox"/> Y <input type="checkbox"/> N 2. HEADSPACE (VOL) <input type="checkbox"/> Y <input type="checkbox"/> N 3. CONTAINER IMPACT <input type="checkbox"/> Y <input type="checkbox"/> N 4. SEALED <input type="checkbox"/> Y <input type="checkbox"/> N 5. # OF SAMPLES MATCH COC <input type="checkbox"/> Y <input type="checkbox"/> N 6. PRESERVED <input type="checkbox"/> Y <input type="checkbox"/> N 7. COOLER TEMP. Deg. C: <u>3.0</u> 8. OTHER: <u>NOE</u>

Instruction: Complete all shaded areas.

Company: Padre Associates, Inc	Address: 1861 Knoll Drive	Tel: 805-644-2220
City: Ventura	State: CA	Fax: 805-644-2050
Attn: Eric Snelling	Email: esnelling@padreinc.com	
Company: Padre Associates, Inc	Address: 369 Pacific Street	
City: San Luis Obispo	State: CA	Zip: 93401

Project Name: Hydrogen Gas Pipeline - Phase II	Quote #: 1802-2611	Special Instructions/Comments: Use Padre Rate Sheet
Project No.: 1802-2611	PO #: 1802-2611	
Sampler:		

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Sample Description	Requested Analysis														Quantity	Container	Remarks
				8015 (DR)	8015 (GRO)	8260 / 624 (Volatiles)	6010 / 7000 (Title 22 Metals)	9081 (Organochlorine Pesticides)	8082 (PCBs)	8270 (Semi-volatiles)	Select Analysis	Chlorinated herbicides 8151	Reactivity (Cyanide and Sulfide)	Ignitability (1010)	Corrosivity 9045C	Soil	Select Water Matrix				Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)
1	1903075-01	HA-11-0.5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	143	Hold
2	-02	HA-11-2'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
3	-03	HA-12-0.5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
4	-04	HA-12-2'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
5	-05	HA-12-5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
6	-06	HA-13-0.5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
7	-07	HA-14-0.5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
8	-08	HA-14-2'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
9	-09	HA-14-5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold
10	-10	HA-15-0.5'		X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	143	Hold

to the subcontract lab - ask for quote.
 6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
 7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 - Hard copy and regenerated reports: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.
 10. Rush TCU/STLC samples: add 2 days to analysis TAT for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name)	Date: 8/16/19	Time: 10:15
Relinquished by: (Signature and Printed Name)	Date: 8/16/19	Time: 10:15
Relinquished by: (Signature and Printed Name)	Date: 8/16/19	Time: 10:15
Relinquished by: (Signature and Printed Name)	Date: 8/16/19	Time: 10:15

CHAIN OF CUSTODY RECORD
 Page 2 of 2

For Laboratory Use Only ATLCOG Ver:20190413

Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y N
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> GSO	<input type="checkbox"/> Other: _____	2. HEADSPACE (VOA)	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> Other: _____		3. CONTAINER INTACT	<input type="checkbox"/> Y <input type="checkbox"/> N
		4. SEALED	<input type="checkbox"/> Y <input type="checkbox"/> N

Instruction: Complete all shaded areas.

Company: Padre Associates, Inc	Address: 1861 Knoll Drive	Tel: 805-644-2220
City: Ventura	State: CA	Fax: 805-644-2050
Attn: Eric Snelling	Email: esnelling@padreinc.com	
Company: Padre Associates, Inc	Address: 369 Pacific Street	
City: San Luis Obispo	State: CA	Zip: 93401

Project Name: Hydrogen Gas Pipeline - Phase II	Quote #: _____	Special Instructions/Comments: Use Padre Rate Sheet
Project No.: 1802-2611	PO #: 1802-2611	
Sampler: _____		

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Sample Description	Requested Analysis													Sample Matrix		Container	Quantity	Remarks
				8075 (DRO) FMPC	8015 (GRO)	8260 / 624 (Volatiles)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8270 (Semi-volatiles)	Select Analysis	Chlorinated herbicides 8151	Reactivity (Cyanide and Sulfide)	Ignitability (1010)	Corrosivity 9045C	Solid	Sol	Turnaround Time (TAT)			
1	1903075-11	HA-15-21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	213	Hold
2	-12	HA-15-51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
3	-13	HA-16-0.51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
4	-14	HA-16-21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold
5	-15	HA-16-51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
6	-16	HA-17-0.51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
7	-17	HA-17-21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2	1	Hold
8	-18	HA-17-51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
9	-19	HA-18-0.51		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold
10	-20	HA-18-21		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	1	1	Hold

to the subcontract lab ... ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20 samples/week if extended storage is requested.
 - Hard copy and regenerated reports/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per processed EDO.

10. Rush TCI/PTIC samples: add 2 days to analysis TAT for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name)	Date: 8/16/19	Time: 10:15
Received by: (Signature and Printed Name)	Date: 8-16-19	Time: 10:15
Relinquished by: (Signature and Printed Name)	Date: _____	Time: _____
Received by: (Signature and Printed Name)	Date: _____	Time: _____

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Printed Name: _____ Signature: _____

For Laboratory Use Only
 ATLCOG Ver: 20190413

Method of Transport		Sample Conditions Upon Receipt	
Client	AIL	Condition	Y N
FedEx	OnTrac	1. CHILLED	<input type="checkbox"/>
GSO		2. HEADSPACE (VVA)	<input type="checkbox"/>
Other:		3. CONTAINER INTACT	<input type="checkbox"/>
		4. SEALED	<input type="checkbox"/>
		5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
		6. PRESERVED	<input type="checkbox"/>
		7. COOLER TEMP. deg C	<input type="checkbox"/>

Instruction: Complete all shaded areas.

Company: Padre Associates, Inc		Address: 1861 Knoll Drive		Tel: 805-644-2220	
City: Ventura		State: CA		Zip: 93003	
Attn: Eric Snelling		Email: esnelling@padreinc.com		Fax: 805-644-2050	
Company: Padre Associates, Inc		Address:		State:	
City: San Luis Obispo		State: CA		Zip: 93401	

ITEM	Laboratory ID (For Lab Use Only)	Sample Description	Date	Time	Requested Analysis										Sample Matrix	Turnaround Time (TAT)	Quantity	Container	Remarks	
					8015 (DRO) + MRO	8015 (GRO)	8260 / 624 (Volatiles)	6010 / 7000 (The 22 Metals)	8081 (Organochlorine Pesticides)	8082 (PCBs)	8270 (Semi-volatiles)	Select Analysis	Chlorinated hydrocarbons 8151	Reactivity (Cyanide and Sulfide)						Ignitability (10)	Corrosivity 9045C	Solid	Soil	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix
1	1903075-21	HA-18-51	8/16/19	1410	X	X	X	X	X	X	X	X	X	X	X	X	X	5	213	Hold
2	-22	HA-19-0.51		1520																
3	-23	HA-19-21		1530	X	X	X	X	X	X	X	X	X	X	X	X	X			
4	-24	HA-19-51		1535	X	X	X	X	X	X	X	X	X	X	X	X	X			
5																				
6																				
7																				
8																				
9																				
10																				

to the subcontract lab --- ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.

7. Electronic records maintained for five (5) years from report date.

8. Hard copy reports will be disposed of after 45 calendar days from report date.

9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$24/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 - Hard copy and regenerated reports/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDO.

10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.

11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Received by: (Signature and Printed Name)	Date: 8/16/19	Time: 1615
Relinquished by: (Signature and Printed Name)	Date: 8-16-19	Time: 1045
Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Printed Name: _____ Signature: _____

Carmen Aguila

From: Eric Snelling <esnelling@padreinc.com>
Sent: Thursday, August 29, 2019 5:03 PM
To: Carmen Aguila
Cc: Advanced Technology Laboratories - customer.relations@atlglobal.com
Subject: RE: Partial Results - Hydrogen Gas Pipeline - Phase II, 1802-2611, ATL#1903075

Hi Carmen:

Please run the following samples for soluble metals:

Sample No.	Lab No.	Analyses
HA-11-2'	1903075-02	STLC and TCLP Pb
HA-12-5'	1903075-05	STLC and TCLP Cr and Pb
HA-13-0.5'	1903075-06	STLC and TCLP Pb
HA-14-2'	1903075-08	STLC and TCLP Pb
HA-16-2'	1903075-14	STLC Pb
HA-17-2'	1903075-17	STLC and TCLP Pb
HA-18-5'	1903075-21	STLC Pb
HA-19-2'	1903075-23	STLC and TCLP Pb, STLC Cu

Thanks,
Eric Snelling

From: Carmen Aguila <Carmen.Aguila@atlglobal.com>
Sent: Thursday, August 29, 2019 2:57 PM
To: Eric Snelling <esnelling@padreinc.com>
Cc: Advanced Technology Laboratories - customer.relations@atlglobal.com <customer.relations@atlglobal.com>
Subject: Partial Results - Hydrogen Gas Pipeline - Phase II, 1802-2611, ATL#1903075

Good afternoon Eric,

Please find your results for the above project attached. Pending subcontracted 8151, Reactivity (Cyanide& Sulfide) and Ignitability to follow. If I can further assist, please let me know.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Thank you,



Carmen Aguila | Project Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 245 | Fax: 562.989.6348 | Mobile: 562.715.8770

Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, Oregon (NELAP), and DoD (Mobile Lab, EPA 8260 Modified) and holds various SBE, DBE and MBE

certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates.

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